Index of Authors Included in the Thirty-Ninth Bibliography

The Roman figures followed by (1) or (2) refer to the centurial classification (Part I). Thus, Comte, A., XIX (1) E means that a paper by Comte, A. is listed under nineteenth century, first half, subdivision E.

The Arabic figures refer to the historical and to the systematic classifications (Parts II and III) which are subdivided into sections numbered consecutively from 1 to 60. For instance, Dijksterhuis, E. J., 4, 20, indicates that papers by Dijksterhuis are listed in section 4 (Greece), and in section 20 (mathematics).

September 1933. FRANCES SIEGEL.

A

Aagaard, B., XX C.
Abadie, A., 49.
'Abd al-Raḥmān al-Ṣūfī, X(2).
'Abd al-Rāziq, M., X(1).
Abraham, J. J., XVIII(2)D.
Abraham ibn Ezra, XII(1).
Adami, J. G., XIX(1)D.
Adams, M., 17.
Alfonso el Sabio, XIII(2).
Alī ibn 'Abbās, X(2).
Allotte de la Fuÿe, 3.
Almagià, R., XV(2).
Altfeld, E., 23.
(Am. council of learned soc.), 17.
Ammonios, VI(1).
Andalus, al-, 14.
Andel, M. A. v., XVI(2)D.
András, D. D., 50.
Anianus, XIII(2).
Anthony, R., XIX(1)C.
Antuña, M. M., XIII(2).
Aomi-no Mabito Genkai, VIII(2).
Appleyard, R., XIX(2)B.
'Arabī, ibn, XIII(1).
Archibald, R. C., 20.
Armstrong, E. V., XIX(2)B.
(Art ancien S. A.), 58.
(Art of limming,) XVI(2)B.
Asín Palacios, M., XIII(1), XIV(2).
Aston, F. W., XX B.
Astruc, P., XIX(1)D.
(Atomic charge), XIX(2)B.
Austin, S. F., XIX(1)C.
Azais, R. P., 38.

B

Bachelard, G., 18, 25.
Baekelmans, W., 20.
Baḥya b. Joseph, XII(1).

Index of Authors Included in the Thirty-Ninth Bibliography

The Roman figures followed by (1) or (2) refer to the centurial classification (Part I). Thus, Comte, A., XIX (1) E means that a paper by Comte, A. is listed under nineteenth century, first half, subdivision E.

The Arabic figures refer to the historical and to the systematic classifications (Parts II and III) which are subdivided into sections numbered consecutively from 1 to 60. For instance, Dijksterhuis, E. J., 4, 20, indicates that papers by Dijksterhuis are listed in section 4 (Greece), and in section 20 (mathematics).

September 1933. FRANCES SIEGEL.

A

Aagaard, B., XX C.
Abadie, A., 49.
'Abd al-Raḥmān al-Ṣūfī, X(2).
'Abd al-Rāziq, M., X(1).
Abraham, J. J., XVIII(2)D.
Abraham ibn Ezra, XII(1).
Adami, J. G., XIX(1)D.
Adams, M., 17.
Alfonso el Sabio, XIII(2).
Alī ibn 'Abbās, X(2).
Allotte de la Fuÿe, 3.
Almagià, R., XV(2).
Altfeld, E., 23.
(Am. council of learned soc.), 17.
Ammonios, VI(1).
Andalus, al-, 14.
Andel, M. A. v., XVI(2)D.
András, D. D., 50.
Anianus, XIII(2).
Anthony, R., XIX(1)C.
Antuña, M. M., XIII(2).
Aomi-no Mabito Genkai, VIII(2).
Appleyard, R., XIX(2)B.
'Arabī, ibn, XIII(1).
Archibald, R. C., 20.
Armstrong, E. V., XIX(2)B.
(Art ancien S. A.), 58.
(Art of limming,) XVI(2)B.
Asín Palacios, M., XIII(1), XIV(2).
Aston, F. W., XX B.
Astruc, P., XIX(1)D.
(Atomic charge), XIX(2)B.
Austin, S. F., XIX(1)C.
Azais, R. P., 38.

B

Bachelard, G., 18, 25.
Baekelmans, W., 20.
Baḥya b. Joseph, XII(1).

Bailey, M., XVI(1)E.
Bājja, ibn, XII(1).
Ball, J., XX C.
Balsac, R. de, XV(2).
Balss, H., 29.
Bamboat, Z., 9.
Barbosa Sueiro, M. B., 34.
Barbour, J. M., 24.
Barclay, E. N., XIX(2)C.
Barlow, R., XVI(1)C.
Barnikol, E., I(2).
Barrois, A., 3.
Baslez, L., 2.
Baṭalyūsī, XII(1).
Bauer, E., 22.
Baumann, E. D., 1.
Baumstark, A., 14.
Bayet, A., 47.
Beauvais, R. de, XIX(2)E.
Becker, O., IV(1)B.C.
Beer, A., VIII(1).
Beeson, B. B., XVIII(2)D.
Belaiew, N.T., 3.
Bell, H. J., 4.
Bénazet, A., 8.
Bentwich, N., II(1).
Bergson, H., 47.
Bergsträsser, G., 14.
Bernacchi, L. C., XX C.
Bertalanffy, L. v., 27.
Berthelot, A., 30.
Bertone, C., XVIII(2)D.
Bigourdan, M. G., 23.
Bijl, W. F. T. v. der, 52.
Bilancioni, G., XIX(1)D.
(Biographie nationale, Belgique), 44.
Birkenmajer, A., XIII(1), XV(2).
Blachère, R., 14.
Blanchard, L., 58.
Blanchet, L., 4.
Blaschke, M., XIX(1)B.
Bjerknes, V. F. K., XIX(2)B.
("Blockley," Phil.), 52.
Blodgett, K. B., XX B.
Boas, G., XVII(1)E.
Bode, W. v., XIX(2)E.
Bois-Reymond, E. du, XIX(2)C.
Bologa, V. L., 16.
Borichevski, I., XVIII(1)B.
Bortolotti, E., XVI(1)A.
Boucher, J., XIX(2)D.
Bourdon, J., 6.
Bouthoul, G., XIV(2).
Bowes, J., 20.
Brachet, A., XX C.
Bräunlich, E., VIII(2), 14.
Braithwaite, R. B., XIX(2)A.
Brand, K., XIX(1)B.
Bratianu, G. I., XIII(1).
Braun, G., XIX(2)D.
Bréhier, L., 7.
Breidenbach, W., 20.
Bremm, J., XIX(1)D.
Bridges, R., XIX(1)A.
Brillouin, L., 22.
Brillouin, M., XIX(1)B.
Brockelmann, C., XI(2).
Broglie, L. de, 22.
Brown, C. B., XIX(2) C.
Browne, C. A., 26.
Browne, E. G., 14.
Brunschvicg, L., XVII(1)A, 48.
Bryan, J. H., 51.
Buchanan, F. H., XIX(1)C.
Budge, Sir E. A. W., 2.
Burke, J. B., 18.
Burr, C. W., XIX(2)D.
Bush, V., XIX(2)B.
Butler, P., XV(2).

C

Cahn, T., 27.

Caillié, R., XIX(1)C.
Caizergues, J. F., XVIII(2)D.
Calmette, A., XIX(2)D.
Calverley, E. E., XIII(2).
Camden, C., jr., XVI(2)B.
Caron, P., 44.
Carré, J. R., XVII(2)B.
Cary, M., 1.
Caskel, W., 14.
Castagné, J., 40.
Caton-Thompson, G., 2.
Cayley, Sir G., XIX(1)B.
Cazalas, E., XVIII(2)A.
Celli, A., 51.
Chace, A. B., XX A.
Chakravarti, G., 9.
Chambard, R., 38.
Chance, B., XVIII(2)B.
Chatelain, M., XIX(2)B.
Christie, D., XIX(2)E.
Clairaut, A. C., XVIII(1)B.
Clark, G., 39.
Clark, J. H., 52.
(Coast & geod. survey), 30.
Coiter, V., XVI(2)D.
Colani, M., 8.
Collingwood, R. C., 5.
Columbus, C., XV(2).
Combes, R., 28.
Compton, K. T., XIX(2)B.
Comte, A., XIX(1)E.
Condorcet, XVIII(2)E.
Conway, A. W., XIX(1)A.
Coomaraswamy, A. K., 9.
Cordier, H., 8.
Cornford, F. M., V B.C.
Coupland, R., XIX(1)C.
Courau, R., XIX(2)E.
Craven, R. M., XVIII(2)B.
Crawley, C., XIX(2)B.
Cresson, A., 47.
Cumming, H. S., 52.
Cumont, F., III(2).
Cuvier, G., XVIII(2)C.

D

Daland, J., XIV(1).
Dangel, R., 8.
Danielsson, O. A., XX E.
Dante, XIV(1).
Darkó, E., 7.
Darmois, G., 22.
Darmstaedter, E., XVI(1)B, 16.
Datta, B., IX(1), XIV(1).
Dávid, A., 3.
Davidson, E. F., XIX(1)E,
Davidson, E. F., XIX(1)E, XIX(2)E.
Davis, R., VIII(1).
Davis, T. L., XVIII(2)B.
Debès, M., XVII(2)E.
Dedekind, R., XIX(2)A.
Delage, E., III(2)B.C.
Deléage, E., XVI(2)D.
Deltheil, R., 16.
De Vleeschauwer, H. J., 20.
Diehl, C., 7.
Diepgen, P., XIX(2)D, 50.
Dijksterhuis, E. J., XVI(2)A, XVII(1)A, XVII(2)B, XVIII(2)A, XIX(1)B, 4, 20.
Dines, W. H., XX B.
Dive, P., 32.
Donaldson, D. M., IX(2).
Doolittle, M., 14.
Dorveaux, P., XIX(1)B.
Doubnow, S., 12.
Dowson, Sir E., 30.
Drachmann, A. G., 26.
Drexl, F., IX(1).
Dubrisay, R., 25.
Dumas, G., XVIII(2)E.
Durand, D. B., XV(1).
Duyvendak, J. J. L., 10.

E

Ebermann, W., 14.
Edelstein, L., V B.C.
Eginitis, D., 1.
Einstein, A., 18, 22.
Elder, E. E., X(1) .
(Elektrotechnischer Verein), XIX(2)B.
Englert, L., 52.
Epictetos, II(1).
Erkes, E., 10.
Evelyn, J., XVII(2)B.

F

Falco, V. D., XIV(1).
Fārābī, A. N. al-, X(1).
Faraday, M., XIX(1)B.
Farès, B., 14.
Fāriḍ al-dīn 'Aṭṭār, XIII(1).
Farmer, H. G., X(1), 14.
Faure, J. L., XIX(2)D.
Favaro, G., XVI(2)D.
Fead, M. I., 31.
Feder, K., XVI(1)D.
Feldhaus, G. W., XX B.
Feldman, W. M., 12.
Ferrannini, L., XIX(1)D.
Ferrié, G., XX B.
Ficker, H. v., XIX(2)C.
Finckh, L., XIX(1)B.
Finkel, J., 14.
Fischel, W., X(1).
Fisk, H. W., XX C.
Flexner, A., 18.
Flight, J. W., 2.
Flint, W. P., 29.
Florian, J., 27.
Fock, G., 58.
Forbes, R. H., 40.
Ford, G. S., 17.
Ford, J. D. M., XVI(1)E.
Forke, A., 10.
Forti, U., XIX(1)B.
Fosseyeux, M., XIX(1)D.
Foster, M. L., XIII(2).
Foster, W., 4.
Fraenkel, A., 20.
Francé, R. H., XX C.
Franke, O., 10.
Fraser-Harris, D. F., XVII(2)D.
Froude, W., XIX(2)B.
Fulton, J. F., XVII(2)B, XIX(1)D.
Furlani, G., XI(1).

G

Gamber, J., 58.
Gāṅguli, S., 9.
Gans, R., XX B.
Garbedian, H. G., 17.
Gardiner, J. S., 27.
Gardner, E. W., 2.
Garrett, J. A., 20.
Garrison, F. H., 50.
Garver, R., XIX(2)A.
Geddes, Sir P., XIX(2)C.
Geiser, S. W., XIX(1)C.
Geismar, E., XIX(1)E.
Gerbert, X(2).
Gerlach, W., XX B.
Gibson, T., XVII(1)D.
Gilbert, E. W., XIX(1)C.
Gillespie, J. E., 31.
Ginsburg, B., 16.
Ginsburg, J., XVII(2)A, 20.
Gliozzi, M., 20.
Godlewski, E., XIX(2)C.
Görres, J., XIX(1)E.
Goethe, XVIII(2)E.
Gomes Teixeira, F., XIX(2)A.
Gordlevsky, W., 12.

Gouhier, H., XIX(1)E.
Goulard, R., XVII(2)D, XVIII(1)D, 50.
Gray, L. C., 28.
Grayzel, S., XIII(1).
Greenwood, T., 19.
Gregory, J. C., XIX(1)B.
Gregory, J. W., XX C.
Griaule, M., 50.
Groenman, A. W., 12.
Grohmann, A., 14.
Guerra, G. del, XIII(2).
Guicciardini, F., XVI(1)E.
Guilland, R., XIV(1).
Gulick, A., XIX(2)C.
Gwynn, S., XIX(2)E.

H

Haagensen, C. D., XII(2).
Hadassi, XII(1).
Hadidian, Y. H., I(1).
Haehl, E., XIX(1)D.
Hale, W. J., XX B.
Halle, J., 58.
Hallema, A., XIX(1)D.
Halley, E., XVII(2)B.
Hamadānī, H. F. al-, X(2).
Hartley, Sir H., XVIII(2)B.
Hartog, P. J., XVIII(2)B.
Hasluck, F. W., IV(1)B.C., 50, 52.
Hauben, S.S., 25.
Hayashi, T., 11.
Hayes, J. G., XX C.
Ḥazm, ibn, XI(1).
Heath, Sir T. L., 4.
(Heavens, the), 23.
Heawood, E., XVI(1)C, XVI(2)C.
(Heffer & Sons), 58.
Hellinga, G., 52.
Heischkel, E., XIX(1)D.
Henderson, Sir J. B., XIX(2)B.
Henri, V., 18.
Hentschel, E., XX C.
(Hermann & Cie), 58.
Herrmann, A., XIX(1)D.
Hess, J. J., 14.
Hickmann, H., XIX(1)D.
Hilbert, D., XIX(2)A, XX A.
Hipparchos, II(2)B.C.
Hirmer, M., XX C.
Hirsch, E., 58.
Hirsch, G. C., XIX(1)D.
His, W., XIX(2)D.
(Hist. of sci.), 16.
(Hist. of sci. cong. Lond.), 16.
(Hist. of sci. cong. Mainz), 16.
(Hist. of sci. soc.), 16.
Hobhouse, R. W., XIX(1)D.
Hōbōgirin, 8.
Hodous, L., 10.
Hoffmann, B., XIX(2)C.
Hoffmann, G., 6.
Hollnsteiner, J., 6.
Holmyard, E. J., 14.
Holzhausen, P., XIX(1)D.
Horber, C., XX E.
Hotchkiss, W. O., 32.
Hotta, M., 11.
Howell, W. B., 50.
Huguet, A., XVI(2)E.
Hulme, E. W., 39.
Humbert, P., XIX(2)B.
Hume, E. D., XIX(2)D.
Hunt, T. S., XIX(2)C.
Hurd-Mead, K. C., 50.
Husain, Y., XIII(1).
Huxley, A., XIX(2)C.

I

(Isis), 16, 56.

J

Jackson, A., 2.
Jackson, R. L., XVIII(2)D.
Jacob b. Maḥir ibn Tibbon, XIII(2).
Jacob b. Meir, XII(1).
Jaeger, M., XIX(2)C.
Jean, C. F., 3.
Jeanselme, E., 51.
Jellinek, S., XIX(2)D.
Jochelson, W., 40.
Johannet, R., XVI(2)E.
John of London, XIII(1).
John of Toledo, XIII(1).
Johnson, M. C., XVI.
Jones, H. W., 51.
Jones, R. F., XVII(1)E.
Joseph, T. K., 9.
Joseph ibn Ẓaddīq, XII(1).
Judah ha-Levi, XII(1).
Julien, G. H., 14.
Junk, W., 58.

K

Kamenski, V. A., XVIII(2)B.
Kammerer, A., 44.
Keller, C., XIX(2)C.
Keskinto inscription, II(2)B.C.
Keyser, C. J., 20.
Keyes, C., XIX(1)C.
Khwārizmī, IX(1).
Kiebitz, F., XX B.
Klausner, J., I(1).
Klemperer, G., XIX(2)D.
Klinckowstroem, C. G., XVIII(2)B.
Knox, J. H. M., jr, XVIII(2)D.
Koch, R., V B.C.
Koch, R., XIX(2)D.
König, W., XIX(1)B.
Kramers, J. H., 36.
Krammer, L., 34.
Krause, F. E. A., 10.
Krause, P., XIX(2)B.
Krenkow, F., 14.
Kronman, E. S., XX B.
Krueger, H. C., XII(2).
Krumbhaar, E. B., 52.
Krumbiegel, I., 28, 29.
Krumbiegel, J., 10.
Kruppa, E., XX A.
Kryloff, N., XX A.
Kulisher, J. M., 26.
Kunzmann, T., XIX(1)B.
Kuo shou-ching, XIII(2).

L

Laforge, L., 32.
Laignel-Lavastine, M., 49.
Laird Clowes, G. S., 26.
Lallemand, C., 30.
Langevin, P., 22.
Laoust, E., 14.
Laplace, P. S. de, XIX(1)A.
Larronde, N., XIX(1)C.
Lasswitz, K., 20.
Lattin, H. P., 20.
Leaf, W., XIX(2)E.
Lebedinski, V. K., XIX(2)B.
Lebègue, R., XV(2).
Lebrun, G., 44.
Lehmer, D. N., XX A.
Lenghel, A., XVIII(2)D.
Lesley, L. B., XIX(2)C.
Lever, R. J. A. W., XVI(2)C.
Lévi, S., 9.
Lévy-Bruhl, L., 40.
Liang, B., 10.
Libert, L., 52.
Liebig, XIX(1)B.
Lier, R., 58.

Liesegang, F. P., XIX(1)B.
Lippmann, E. O. v., XVI(2)B, XVIII(2)B, XIX(1)B, 25, 27.
Littmann, E., 14.
Lloyd, J. H., XVIII(2)D.
Locke, L. L., XVII(2)A.
Lockemann, G., XIX(2)D.
Loewenberg, B. J., XIX(2)C.
Loree, L. F., 26.
Loria, G., XIX(2)A, 20.
Lovejoy, A. O., XVIII(2)E.
Lowie, R. H., XX C, 39, 40.
Lubarsch, O., XX C.
Lubbock, C. A., XVIII(2)B.
Lucas, A., 2.
Luria, S. J., 20.

M

Maggs Bros., 58.
Magnan, A., 27.
Main, A. K., XIX(2)C.
Maine de Biran, P., XIX(1)E.
Mainz, E., XII(2).
Maire, R., 28.
Major, R. H., 51.
Manilius, I(1).
Mann, J., 12.
Marçais, G., 14.
Marcolongo, R., XVII(1)B.
Marett, R. R., XX E.
Margoliouth, D. S., 14.
Marguet, F., 31.
Mariani, J., XIX(1)A.
Marinus, A., 40.
Marshall, A. E., 3.
Martelli, U., XIX(1)C.
Martius, E. W., XIX(1)D.
Massalongo, C. B., XIX(2)C.
Masson-Oursel, P., 9.
Mathias, O., XIX(2)B.
Matschoss, C., XX B.
Maxwell, J. C., XIX(2)B.
McFarland, J., 52.
Méautis, G., 2.
(Med., hist., cong. Bucarest), 50.
(Med. hist., cong. Paris), 50.
Meerloo, A. M., 50.
Mégroz, R. L., XIX(2)D.
Meïssa, M. S., XI(1).
Meldrum, A. N., XVIII(2)B.
Menon, C. P. S., 23.
Menshutkin, B. W., 25.
Mercati, S. G., 7.
Messedaglia, L., XIX(1)C.
Metcalf, C. L., 29.
Metzger, H., 16.
Mewaldt, J., V B.C.
Meyer, E., 1.
Meyerhof, M., II(1), 14.
Meyerson, E., 18.
Middleton, W. S., 52.
Milch, W., XVII(2)D.
Millàs Vallicrosa, J., XIII(2).
Miller, B., 14.
Miller, W. S., XIX(1)D.
Mimori, M., XIX(2)A.
Mineur, H., 23.
Mittwoch, E., VII(1).
Moffatt, L. G., XVI(1)E.
Monod, T., XIX(1)C.
Monod, V., 49.
Monti, A., XIX(1)D.
Moore, E. H., XIX(2)A.
Mordukhai-Boltovskoi, D., 20.
Morgan, G. A., XIX(2)E.
Morse, E. S., XIX(2)C.
Moses ibn Ezra, XII(1).
Moule, A. C., XIII(2), XIV(2), 10.
Mousson-Lanauze, 49.
Mouterde, R., II(1).
Mowinckel, S., 12.
Müller, R., 39.
Müller, R. F. G., 9.

Münster, L., XV (2).
Munro, D. C., XII(2).
Mžik, H. v., II(1).

N

Nachmanson, E., V B.C.
Nekrassow, A. D., XVII(2)C.
Nemoy, L., XVI(2)E, 37.
Neufeld, M. W., XX B.
Neugebauer, O., 3.
Neviani, A., XVII(2)C.
Newall, H. F., XIX(2)B.
Newell, L. C., 2.
Newton, A. P., XV(2).
Newton, I., XVII(2)A.
Nierenstein, M., XVIII(1)B.
Nieuwenhuis, A. W., 40.
Nock, A. D., 4.
Nordmann, V. A., XVI(2)E.
Nourry, E., 58.

O

Oettingen, W. F. v., XIX(2)D.
Oliaro, T., 50.
Oppeln-Bronikowski, F. v., XX E.
Orfila, J., XIX(1)D.
Origène, A. D., XVIII(1)B.
Ostwald, W., XIX(1)B.

P

Paal, H., XIX(1)D.
Pacificus Archidiaconus Veronensis, IX(1).
Packard, F. R., XVIII(1)D, 50.
Pagel, W., XIX(2)D.
Palhoriès, F., 1.
Palmer, H. D., XVIII(2)D.
Papanti, P. L., XIX(1)D.
Paret, R., 14.
(Paris), 16.
Pasteur, L., XIX(2)D.
Pastori, C., 19.
Patterson, B.C., XIX(1)A.
Patterson, T. S., XVII(2)B, XVIII(2)B.
Pedro, Alfonso, XII(1).
Peetersen-Fontainas, J., 56.
Peirce, C. S., 18, 19.
Pellegrini, F., 6.
Pelliot, P., VII(1), VIII(2), XIII(2).
Penniman, T. K., XX E.
Périéteanu, A., 18.
Pérouse, La, XVIII(2)C.
Perrier, G., 16.
Perrin, F., 22.
Perrin, J., 18.
Peters, T., XVII(1)B.
Petrie, F., 2.
Petronievics, B., XIX(2)B.
Petzoldt, E., XVIII(2)D.
Pfaff, F., V B.C., II(2).
Piccard, A., XX B.
Piggott, S., 39.
Piria, R., XIX(1)B.
Places, E. des, IV(1)B.C.
Planck, M., XIX(2)B, 18.
Plate, L., XX A.
Pliny the Elder, I(2).
Pogány, B., 24.
Poidebard, A., II(1).
Polachek, H., X(1).
Polain, L., XV(2).
Policard, A., 24.
Poulton, E. B., 18.
Prévot, E., 30.
Priestley, XVIII(2)B.
Pringsheim, E. G., XIX(2)C.
Przyluski, J., 13.
Ptolemy, II(1).
Pullé, F. L., 9.

Q

Quaritch, B., 58.
Quereuil, J. A., 58.

R

Rabaud, E., XX C.
Rachmati, G. R., 8.
Rainov, T. I., 16, 22.
Ramon Lull, XIII(2).
Ravaisson, F., XIX(2)E.
Ray, P. C., 9.
Raynaud, L., 50.
Reiche, K., XIX(1)E.
Reinach, T., 2.
Renaud, H. P. J., 14.
Reymond, A., 19.
Reynolds, E. E., XIX(2)C.
Rich, A. R., XIX(1)C.
Richard Fitzneal, XII(2).
Richet, C., XIX(2)D.
Richter, G., 14.
Richter, O., XIX(2)C.
Rickard, T. A., 5.
Riesman, D., 52.
Rigobon, M., X(2).
Rijnberk, G. v., XVII(2)C.
Roback, A. A., 12.
Robinson, F. J., 26.
Roland-Cabaton, Mme. M. A., 8.
Rolleston, J. D., XIX(2)D.
Rome, A., III(1), IV(2), 4.
Roncière, C. de la, XV(1).
Rosenthal, A., XX A.
Roshdestvenski, D., 24.
Ross, Sir R., XIX(2)D.
Rouch, J., XVIII(2)C.
Rubin, I., XVIII(2)D.
Rühle, O., 40.
Ruhräh, J., XIX(1)D.
Rupe, H., XIX(2)B.
Rushd, ibn, XII(2).
Ruska, J., 6.
Russell, B., 18.

S

Sa'di, L.M., 6.
Saint-Périer, R. de, 39.
Sainte-Claire-Deville, C. J., XIX(1)B.
Sarton, G., 14, 16.
Saussure, R. de, 37.
Saxl, F., VIII(1).
Sayce, A. H., XIX(2)E, 3.
Schachter, M., 51.
Schadelbauer, K., XVI(2)D.
Schaub, E. L., XVII(2)E.
Schebesta, P., 40.
Scheil, V., 3.
Schiff, J., XIX(1)C.
Schiller, W., XIX(2)C.
Schimank, H., XIX(1)B.
Schlaginhaufen, O., XIX(2)A.
Schnabel, P., 6.
Schönebaum, H., XVIII(2)E.
Schott, A., 3.
Schuette, H. A., 26.
Schur, F., XX A.
Schuster, Sir A., XIX(2)B.
Schwering, J., XIX(2)D.
Seddon, C. N., XII(2).
Sée, H., XIX(2)E.
Segre, B., 20.
Seifert, A., XIX(1)B.
Senn, E., XIX(2)D.
Serapion the Elder, IX(2).
Sergescu, P., 20.
Sérieux, P., 52.
Seurat, L. G., 29.
Shackleton Sir E., XX C.
Shaw, M. B., 51.
Shear, C. L., XVIII(2).

Shellabear, W. G., 14.
Sidersky, D., 3.
Siegmund, G., XIX(2)C.
Sigerist, H. E., XIX(2)D, 34, 50.
Silverijser, F., XVII(1)B.
Simeika, M. p., 14.
Simon, P., 6.
Simons, L. G., XVI(2)A, XVIII(1)A, XIX(2)C, 20.
Skoss, S. L., X(1).
Smith, D. E., XIX(2)A, 20.
Smith, R. A., 39.
(Soc. of chem. industry), XIX(2)B.
Soltau, K., XVI(1)D.
Somadeva, XI(2).
Sommerfeld, A., XX B.
Somogyi, J. d., XIV (2).
Somogyi, J. v., XIV(1).
Sotheran, H., 58.
Soulier, G., XIV(1).
Souques, A., V B.C.
Speter, M., XIX(1)B, XIX(1)D.
Steiger, R., XVIII(1)C.
Stein, Sir A., IV(2)B.C.
Stein, H., 44.
Stein, I. H., XIV(2).
Steiner, W. R., XVIII(2)D.
Stengel, A., 52.
Stenzel, J., IV(1)B.C.
Stpehenson, J., XX C.
Stern, P., 9.
Steward, G. C., XIX(1)A.
Stieda, W., XVIII(2)A.
Stone, E., 40.
Strobl, K. H., XIX(1)D.
Strubell-Harkort, A., XVII(1)D.
Struik, D. J., 20.
Strunz, F., XIII(2).
Studnicka, F. K., XIX(1)C.
Stüve, R., XIX(1)C.
Sudhoff, K., V B.C., XVI(1)D, 2, 5, 6, 50, 51.
Sullivan, J. W. N., 20.
Synge, J. L., XIX(1)A.
Szücs, A., 20.

T

(Taeubers & Weil), 58.
Taft, R., 26.
Takayama, S., 11.
Talman, C. F., 31.
Tànfani, G., 6.
Tannery, P., 16.
Tannery, Mme. P., XVII(1)A.
Tansley, A. G., 27.
Taranovich, V. P., XVIII(1)B.
Tass, A., 23.
Tatlock, J. S. P., XIV(1).
Taylor, J. E., XIX(2)B.
Temkin, O., 4.
Terson, A., XVIII(2)D.
Thayer, W. S., XIX(2)D.
Thompson, C. J. S., 25.
Thompson, H., 4.
Thompson, R. C., 3.
Thomsen, P., VI(1).
Thomson, S. H., XIII(1).
Thorndike, L., 6.
Thureau-Dangin, F., 3.
Tiberghien, A., XIX(1)C.
Toeplitz, O., IV(1)B.C.
Torlais, J., XVIII(1)D.
Tocantins, L. M., 51.
Toni, G. B. de, XIX(1)C.
Toussoun, Le Prince, O., 2.
Toutain, J., 39.
Trénel, M., XIX(1)D.
Trevithick, R., XVIII(2)B.
Tropfke, J., 20.
Tucci, G., XVIII(1)C.
Tūmart, ibn, XII(1).
Turnbull, H. W., XVII(2)A.

U

Ullman, B. L., XIII(2).
Usāmah ibn Munqidh, XII(2).

V

Vallisnieri, A., XVIII(1)C.
Vanhée, L. (S. J.), XIV(1).
Van Schevensteen, A. F. C., XVI(1)D, 51.
Vecchi, B. de, XV(2).
Vera, F., XVI(1)A.
Vergniol, C., XIX(1)E.
Vetter, Q., XVI(1)B, 2, 16.
Viets, H. R., 50.
Villamil, R. de, XVII(2)A.
Virchow, H., XIX(2)D.
Vogel, K., III(2)B.C., 3.
Volterra, N., XVII(2)C.
Vowles, M. W., XX B.

W

Walafrid Strabo, IX(1).
Walden, P., XIX(1)B.
Walker, W. C., XVIII(2)B.
Walther, J., XX C.
Warmington, E., 1.
Warrain, F., XX C.
Wavre, R., 20.
Webb, E. J., VI B.C.
Weeks, M. E., 25.
Weinberger, B. W., 50.
Weir, Sir J., XIX(1)D.
Wellmann, M., V B.C., XX E.
Wenkebach, E., II(2).
Wenzl, A., 37.
Wernher, K. G. A., XIX(2)D.
Wesson, M. B., XIX(2)D.
Whitrow, G. J., 20.
Whitteck, G. C., 5.
Wilamowitz-Moellendorf, U. v., V B.C., II(2).
Wilbur, E. M., XVI(2)D.
Wilcken, U., IV(2)B.C.
Wild, L. H., XVI(1)E.
Wilde, J., XIX(1)C.
Wilhelm v. Hirsau, XI(2).
Willard, J. F., 6.
William the Englishman, XIII(1).
Williams, W. R., 16.
Willis, B., 12, 32.
Willman-Grabowska, H. de, 9.
Wilmer, W. H., XVII(2)E.
Wilson, E. F., XIII(1).
Wimmer, F., 39.
Winderlich, R., 25.
Windler, E., XIV(2).
Windred, G., 20.
Winter, E., XIX(1)A.
Winter, O., XIX(2)C.
Winterstein, H., XIX(1)C.
Wolf, I., XIX(1)D.
Woyciechowsky, J. v., XVIII(1)A.
Wren, F. L., 20.
Wright, J., 40.
Wüst, E., XIX(2)C.

Y

Yaḥyā al-Hāshimī, M., X(2).

Z

Zehnder, L., XIX(2)B.
Zeiss, H., XVIII(2)D.
Zeitlin, E., XVIII(2)B.
Zekī, S., 14.
Zinner, E., XII(2), XIII(2), 23, 40.
Zuretti, C. O., 4.

ISIS

International Review devoted to the History
:: of Science and Civilization ::
Quarterly Organ of the History of Science Society and of the International Committee of the History of Science.

SUMMARY
of No 62 (vol. XXI, 3, 700 p.)

G. SARTON. — Preface to Volume XXI. Casting bread upon the face of the waters 488

Brief Table of Contents of Volumes I to XX of Isis . . . 502

Index of Authors to Volumes XIX, XX and XXI 619

Brief Table of Contents of Vols. I to XX of Isis

Having completed the edition and publication of twenty large volumes it is meet to look backward for a moment and to provide a brief description and analysis of them. This retrospect will be equally precious to the fortunate owners of the collection, and to those who cannot afford to own it, whose association with *Isis* can only begin with vol. XXI (the new series), but who nevertheless want a guide post to the earlier series.

Let us begin with a statistical summary. The first twenty volumes (12.550 pages, 202 plates) contain 304 memoirs, 368 shorter items, 878 reviews, 27.282 bibliographic notes. Taking the average : each volume contains 627 p., 10 pl., 15 memoirs, 18 shorter items, 44 reviews, 1364 bibliographical notes. It is important to insist on these averages, for there are volumes and volumes. Following the example of many esteemed contemporaries we might have made thirty or forty volumes out of our first twenty : everything would have been the same except the number of volumes. (1) Or we might have done the opposite : to print *Isis* on very thin opaque paper—such as the famous India paper—and thus increase the capacity of each volume to 1200 or 1500 pages without increasing its bulk. Then the twenty volumes of *Isis* would have been reduced to ten or eight. This would have been my choice if it had been financially possible, for we must try to keep our libraries as compact as possible.

Our first twenty volumes have been published in 59 consecutive parts, numbered from 1 to 59, the first of which appeared in March 1913, the fifty-ninth in January 1934. Deducting five years, the break caused by the War (2), we may say that these fifty nine numbers were

---

(1) To illustrate, vols. 1-26 (1907-1933) of SUDHOFFS *Archiv für Geschichte der Medizin* (a very rich collection of materials for the history of medicine) include only 9335 pages, that is an average of 359 pages per volume. The capacity of these 26 vols. is inferior to that of 15 vols. of *Isis*, or to put it otherwise, on that basis the 20 vols. of *Isis* would become 35 !

(2) *Isis* was asleep from June 1914 to September 1919.

published in seventeen years, that is, at an average interval of about three months and ten days. Thus the description of *Isis* as a "quarterly" is not very incorrect. The average size of a number is 213 pages and 3.4 plates.

But enough of statistics! The following table includes the list of all the main articles published in *Isis* (these are asterisked), plus a selection of the shorter notes, and all the reviews; the latter are listed under the names of the author. In this wise the most important publications of the last twenty-two years are likely to be included.

The list will be useful though it is clear that a number of valuable publications are omitted. The omissions are due to three main causes: (1) many authors and publishers failed to send their publications to the editor, (2) it was not always possible to review publications duly sent to him. Either a competent reviewer was not available, or the reviewer failed to do his duty, (3) many important publications were listed and briefly reviewed in our Critical Bibliographies, and it was of course out of the question to enumerate the items of these Bibliographies (more than 27,000!) or to make a selection from them. And yet some of these items are more elaborate and withal more significant than formal reviews.

The registration, reviewing, and indexing of publications on the history of science raise many difficulties, of which I am keenly aware. Indeed I can see the problems involved from every angle, for I am not only an editor, publisher, and reviewer, but my own own books have been reviewed by other scholars in many places and in many ways. All I can say is that I tried my best as editor of *Isis* to publish reviews of the most important publications in our own field, and of quite a few others in neighboring fields, —this being done systematically to counteract lopsidedness.

I had first thought of adding to this Table a brief index, and I even began the preparation of its compilation. This made me realize that even the most superficial index would have grown to such proportions as to become unmanageable—the overtaxed capacity of *Isis* and its financial situation being taken into account. Hence there was nothing I could do but abandon that idea. (3) I may add that the readers who desire to obtain a better knowledge of the contents of *Isis* in general or in particular with reference to definite topics, can help themselves as follows:

(1) Consult the indices of proper names which appeared in vol. 1 and in every subsequent volume the ordinal number of which is divisible

(3) Except with regard to the index of reviewers which follows.

by three. Seven such indices have already been published, and the eighth will appear in 1934;

(2) Consult the Critical Bibliographies wherein all the articles and reviews published in *Isis* are eventually classified each in its own section together with thousands of other items. The fundamental classification is chronological (by half centuries), and is followed by supplementary classifications, historical (antiquity, Egypt, China, Israel, Islam, etc.) and systematic (science in general, mathematics, physics, astronomy, etc.)

To be sure, this is not sufficient, and a subject index is much to be desired, but it could not be realized except at the expense of long and difficult labor and considerable money. The eventual publication of it is one of my dreams, but we may have to postpone it until the completion of the fiftieth volume of *Isis*. I hope it will then be possible to do it, and to do it in the proper way.

In the meanwhile, in spite of the lack of an index, the present list will be useful not only as a key to our first twenty volumes but also as a guide post to a curious section of the literature and thought of our time.

To conclude I wish to express my thanks to Dr. MARY C. WELBORN and to Miss FRANCES SIEGEL, who have done this work. Dr. WELBORN has taken pains to add the dates of birth and death of the authors known to her to be dead; this will still increase the serviceableness of the list.

185 *Harvard Library* GEORGE SARTON.
Cambridge, Mass., Jan. 12, 1934.

('**Abdu, Shaikh Muḥammad,** 1849-1905). Risalat al Tawhid. Exposé de la religion musulmane, traduit de l'Arabe avec introduction sur la vie et les idées du Cheikh MOHAMMED ABDOU. Par B. MICHEL et le Cheikh MOUSTAPHA ABDEL RAZIK. XC+150 p. Paris, 1925 (9, 456-57, MACDONALD).

Académie royale de Belgique, depuis sa fondation (1772-1922). 343 p. Bruxelles, 1922 (4, 522-23, SARTON).

Achalme, Pierre Jean. L'atome, sa structure, sa forme, 244 p., 15 pl., 63 ills. Paris, 1921 (4, 544-45, GUINET).

— Les édifices physico-chimiques. T. II, La molécule. 234 p. Paris, 1922 (5, 464, GUINET).

Acres, R. d'. The art of water-drawing. Published by HENRY BROME, at the Gun in Ivie Lane, London 1659 and 1660. With introduction

and a diagram by RHYS JENKINS. xv+41 p. Cambridge, 1930 (15, 349-50, SARTON).

* **Adams, C. W.** A note on GALILEO's determination of the height of lunar mountains. 17, 427-29, 1932.

Adickes, Erich (1866-1929). KANT als Naturforscher. 2 vols. Berlin, 1924-1925 (8, 355-58, WIELEITNER).

(**Agricola, Georgius**, 1494-1555). De re metallica. Translated from the first Latin edition of 1556 with biographical introduction, annotations, and appendices upon the development of mining methods, metallurgical processes, geology, mineralogy and mining law from the earliest times to the 16th century, by HERBERT CLARK HOOVER and LOU HENRY HOOVER. xxxi+440 p. London, 1912 (13, 113-16, SARTON).

— Zwölf Bücher vom Berg- und Hüttenwesen, usw. In neuer deutscher Übersetzung bearbeitet von CARL SCHIFFNER unter Mitwirkung von ERNST DARMSTAEDTER, PAUL KNAUTH, WILHELM PIEPER, FRIEDRICH SCHUMACHER, VICTOR TAFEL, EMIL TREPTOW, ERICH WANDHOFF. xxxii+564 p., ills. Berlin, 1928 (13, 113-16, SARTON).

Aḥmad, Maqbūl. A Persian translation of the eleventh century Arabic alchemical treatise, 'Ain aṣ-ṣan'ah wa'aun aṣ-ṣana'ah. To which is annexed a note on the chemistry of the processes given in the treatise, by B. B. DATTA. (Memoirs of the Asiatic Society, 8, 419-60). Calcutta, 1929 (14, 229-32, SARTON).

* **Alexander, Elizabeth H.** See FERGUSON, J. 17, 71-93, 1932.

Allbutt, Sir **T. Clifford** (1836-1925). Greek medicine in Rome (The Fitzpatrick lectures on the history of medicine delivered at the Royal College of Physicians of London in 1909-1910 with other historical essays). xiv+633 p. London, 1921 (4, 355-57, E. C. STREETER).

Allier, Raoul. Les non-civilisés et nous, différence irréductible ou identité foncière. 317 p. Paris, 1927 (12, 343-47, METZGER).

Allison, William Henry, see **Dutcher, George Matthew** (17, 453-64, J. MAYER).

Almquist, Ernst Bernard. Grosse Biologen. Eine Geschichte der Biologie und ihrer Erforscher. 143 p., 23 port. München, 1931 (18, 206-07, KOFOID).

Ambard, L. See **Pérès, J.** (15, 188-90, GUINET).

Anderson, Annie. See **Singer, Dorothea Waley** (12, 168-69, SARTON).

Andoyer, Henri (1862-1929). L'œuvre scientifique de LAPLACE. 162 p. Paris, 1922 (5, 159-60, GUINET).

André, Pierre J. (Pierre Redan). L'Islam et les races : T. premier. Les origines, le tronc et la greffe ; T. second. Les rameaux (mouvements régionaux et sectes). XVI+596 p. Paris, 1922 (6, 563-64, MACDONALD).

Annuaire de la vie internationale publié pour l'Union des Associations internationales avec le concours de la Fondation Carnegie pour la Paix internationale et de l'Institut international de la Paix. Seconde série, vol. 2, 1910-1911, 2652 p. Bruxelles, 1912 (1, 289-90, SARTON).

Anthiaume, A. Cartes marines, constructions navales. Voyages de découverte chez les Normands. 1500-1650. Préface de l'Amiral BUCHARD. 2 vols. Paris 1916 (4, 52, SARTON).

Anthony, Raoul. Le déterminisme et l'adaptation morphologique en biologie animale. Première partie. Déterminisme morphologique et morphogénie, 374 p., 129 fig. (Fascic. 14 des Arch. de Morphol. génér. et expérim.). Paris, 1922 (5, 455-56, GUINET).

Apert, Eugène. L'hérédité morbide. 306 p. (Bibl. de Philos. scientif.). Paris, 1919 (3, 295, GUINET).

— Vaccins et sérums. 283 p. Paris, 1922 (5, 190-91, GUINET).

Arber, Agnes (Mrs. **E. A. Newell Arber**). Herbals, their origin and evolution. A chapter in the history of botany (1470-1670). XVIII+254 p., frontispiece, 21 pl., 113 fig. Cambridge, 1912 (1, 281-82, SARTON).

* — The botanical philosophy of GUY DE LA BROSSE : a study in seventeenth-century thought. 1, 359-69, 1913.

* **Archibald, Raymond Clare.** A rare phamphlet of MOIVRE and some of his discoveries. 8, 671-83, facs., 1926.

* — FLORIAN CAJORI (1859-1930). 17, 384-407, 1 pl., 1932.

— See **Chace, Arnold Buffum** (14, 251-55, SARTON).

Ardigò, Roberto (1828-1920). Pagine scelte, a cura di E. TROILO (con ritratto di R. A.). XXIV+344 p. Genova, 1913 (1, 524-26, MIELI).

(Aristotle). Das Steinbuch des ARISTOTELES, mit literargeschichtlichen Untersuchungen nach der arabischen Handschrift der „Bibliothèque nationale". Hrsg. u. übersetzt von JULIUS RUSKA. VI+208 p. Heidelberg, 1912 (1, 266-67, MASSON-OURSEL).

— ARISTOTELIS Meteorologicorum libri quattuor. Recensuit indicem verborum addidit F. H. FOBES. XLVIII+235 p. Cambridge, Mass., 1919 (3, 278-79, SARTON).

(Āryabhaṭa, b. 476). The Āryabhaṭīya of ĀRYABHAṬA. An ancient Indian work on mathematics and astronomy. Translated with notes by WALTER EUGENE CLARK. XXX+90 p. Chicago, 1930 (15, 173-74, SARTON).

Ashton, Thomas Southcliffe. Iron and steel in the Industrial Revolution. 266 p., pl. Manchester, 1924 (9, 133-34, C. H. DESCH).

Asín Palacios, Miguel. Islam and the Divine Comedy. Translated and abridged by HAROLD SUNDERLAND, with an introduction by the Duke of Berwick and Alba. XXVI+295 p. London, 1926 (10, 65-69, SARTON).

* — El « Libro de los animales » de JĀḤIẒ. 14, 20-54, 1930.

— El Islam cristianizado. Estudio del « Sufismo » a través de las obras de ABENARABI de Murzia. Dibujos de CARLOS DE MIGUEL. 541 p., 2 pl., maps. Madrid, 1931 (17, 271-73, SARTON).

Auerbach, Felix. Geschichtstafeln der Physik. Leipzig, 1910 (6, 446-47, F. DANNEMANN).

— Physik in graphischen Darstellungen. Leipzig, 1912 (6, 446-47, F. DANNEMANN).

— Entwicklungsgeschichte der modernen Physik, zugleich eine Uebersicht ihrer Tatsachen, Gesetze und Theorien. VIII+344 p., 115 fig. Berlin, 1923 (6, 444-46, F. KOENIG, jr.; F. DANNEMANN, 6, 446-47).

Avalon, Arthur. [Series of works on Tantra]. London, 1913 (3, 77-81, MASSON-OURSEL).

(**Avicenna,** 980-1037). AVICENNAE De congelatione et conglutinatione lapidum. Being sections of the Kitāb al-shifā'. The Latin and Arabic texts edited with an English translation of the latter and with critical notes by E. J. HOLMYARD and D. C. MANDEVILLE. IX+86 p. Paris, 1927 (11, 134-35, SARTON).

Ayres, Clarence. HUXLEY. 254 p., frontispiece. New York, 1932 (20, 298-300, KOFOID).

Azaïs, R. P.; Chambard, R. Cinq années de recherches archéologiques en Ethiopie, province du Harar et Ethiopie méridionale. Préface par EDMOND POTTIER. 2 vols. Paris, 1931 (19, 516-18, SARTON).

Azo, R. F., see **Stapleton, H. E.** (11, 129-34, SARTON).

Babcock, William H. (1849-1922). Legendary islands of the Atlantic. A study in medieval geography. 196 p. New York, 1922 (5, 167-70, SARTON).

Bachelard, Gaston. Le pluralisme cohérent de la chimie moderne. 235 p. Paris, 1932 (19, 233-35, METZGER).

(**Bacon, Roger,** c. 1214-c. 1292). Opera hactenus inedita ROGERI BACONI, fasc. IX. De retardatione accidentium senectutis cum aliis opusculis de rebus medicinalibus, nunc primum ediderunt A. G. LITTLE; E. WITHINGTON. XLIV+224 p. Oxford, 1928 (13, 110-11, THORNDIKE).

— The Opus majus. A translation by ROBERT BELLE BURKE. 2 vols. Philadelphia, 1928 (11, 138-41, SARTON).

Baddeley, John F. Russia, Mongolia, China, being some record of the relations between them from the beginning of the XVIIth century to the death of the Tsar ALEXEI MIKHAILOVICH (A.D. 1602-1676). 2 vols. London, 1919 (4, 85-88, SARTON).

Baedeker, Karl. Indien. Ceylon. Vorderindien. Birma. Die malayische Halbinsel. Siam. Java. Handbuch für Reisende. LXXIV+358 p., 22 maps. Leipzig, 1914 (2, 401, SARTON).

Baerwald, Richard. Die intellektuellen Phänomene (Der Okkultismus in Urkunden, hrsg. von MAX DESSOIR). VI+382 p. Berlin, 1925 (8, 728-31, ROBACK).

Bailey, Cyril. The Greek atomists and EPICURUS. VI+619 p. Oxford, 1928 (13, 123-25, SARTON).

Baker, Wilfred E. Watson, see **Disney, Alfred N.** (20, 495-97, KOFOID).

Banerjee, Gauranga Nath. Hellenism in ancient India. Second edition. VIII+344 p. Calcutta, 1920 (4, 59, SARTON).

Barnes, Harry Elmer. The new history and the social studies. XVII+605 p. New York, 1925 (8, 380-82, DEPT).

* **Barnes, William H.** BROWNE's " Hydriotaphia " with a reference to adipocere. 20, 337-43, 1934.

Barnett, Lionel David. The path of light, from the Bodhicharyāvatāra of ÇANTIDEVA, a manual of Mahāyāna Buddhism. 107 p. (The wisdom of the East series). (1, 515, MASSON-OURSEL).

— Antiquities of India. An account of the history and culture of ancient Hindustan. XVI+306 p. ills. map. London, 1913 (2, 408-10, SARTON).

Barry, Frederick. The scientific habit of thought. An informal discussion of the source and character of dependable knowledge. XIII+358 p. New York, 1927 (14, 265-68, SARTON).

(**Barth, Auguste,** 1834-1916). Quarante ans d'Indianisme. Œuvres d'AUGUSTE BARTH, recueillies à l'occasion de son quatre-vingtième anniversaire : 2 vols. Paris, 1914 (3, 65-66, MASSON-OURSEL).

(Basile, Giovanni Battista, c. 1575-1632). The Pentamerone. Translated from the Italian of BENEDETTO CROCE. Now edited with a preface, notes and appendixes by N. M. PENZER. 2 vols. London, 1932 (20, 464-67, MACDONALD).

(Bassi, Agostino, 1773-1856). Opere di AGOSTINO BASSI. LXVIII+676 p., 1 port. Pavia, 1925 (8, 497-98, GUINET).

Bateson, William (1861-1926). Problems of genetics. IX+258 p., ills. New Haven, 1913 (2, 230-31, SARTON).

Baumstark, Anton. Geschichte der syrischen Literatur mit Ausschluss der Christlich-palästinensichen Texte. XVI+378 p. Bonn, 1922 (5, 160-62, RUSKA).

Bayet, Albert. La morale de la science. 139 p. Paris, 1931 (19, 241-45, PELSENEER).

Becker, Carl Heinrich. Islamstudien. Vom Werden und Wesen der islamischen Welt. XII+534 p. Leipzig, 1924 (6, 559-61, RUSKA).

Beer, Arthur, see **Saxl, Fritz** (19, 504-06, POGO).

(Benevenutus Grassus of Jerusalem). De oculis eorumque egritudinibus et curis. Translated with notes and illustrations from the first printed edition, Ferrara, 1474 A. D. by CASEY A. WOOD. XIII+101 p., 5 pl. Stanford, Cal., 1929 (14, 232-33, SARTON).

Bensaude, Joaquim. L'astronomie nautique au Portugal à l'époque des grandes découvertes. 290 p. Berne, 1912 (1, 716-18, JEAN MASCART).

— Histoire de la science nautique portugaise (Résumé). 110 p. Geneva, 1917 (3, 424-26, SARTON).

Bentley, Arthur F. Linguistic analysis of mathematics. 311 p. Bloomington, Indiana, 1932 (20, 491-92, LENZEN).

Berg, L. S. Istoria geograficheskago oznakomleniyas Yakutskim Kraem (History of the geographical acquaintance with the Yakutsk region). Pp. 1-38 Yakutiya — Sbornik Statei (collection of articles). Leningrad, 1927 (11, 398-99, N. TRANSEHE).

* **Bergmann, Hugo.** SALOMON MAIMONS Philosophie der Mathematik. 16, 220-32, 1931.

Bergson, Henri. Durée et simultanéité, à propos de la théorie d'EINSTEIN. Deuxième édition. x+289 p. Paris, 1923 (6, 570-71, H. M. SHEFFER).

— Les deux sources de la morale et de la religion. 348 p. Paris, 1932 (19, 240, GUINET).

Berthier, Aug. Georges. See **Georges-Berthier.**

Besredka, A. Histoire d'une idée. L'œuvre de METCHNIKOFF. 135 p., port. Paris, 1921 (4, 519-21, GUINET).

Beuchat, Henri. Manuel d'archéologie américaine, avec une préface de H. VIGNAUD. 773 p., 261 fig. Paris, 1912 (1, 530-37, JORGE ENGERRAND).

* **Bévenot, Hugh G.** The Weingarten planetarium. 8, 300-12, 2 pl., 1926.

Bezold, Carl (1859-1923), see **Boll, Franz** (9, 476-77, SARTON).

Bhāṇḍārkar, Rāmkṛishṇa Gopāl. Vaiṣṇavism, Śaivism and minor religious systems. 169 p. (Grundriss der Indo-Arischen Philologie und Altertumskunde, 3). Strasbourg, 1913 (3, 76-77, MASSON-OURSEL).

(**Bhartrihari**). The Satakas or wise sayings of BHARTRIHARI, translated from the Sanskrit by J. M. KENNEDY. 166 p. London (1, 512-13, MASSON-OURSEL).

Bianchi, Giovanni, see **Morgagni, G. B.** (2, 213, A.G.-B).

Bilancioni, Guglielmo. Veteris vestigia flammae. Pagine storiche della scienza nostra. XVI+544 p., 66 fig. Rome, 1922 (5, 475-77, SARTON).

Bilikiewicz, Tadeusz. Die Embryologie im Zeitalter des Barock und des Rokoko. 183 p., 18 fig. (Institut f. Gesch. d. Med., Leipzig, 2). Leipzig, 1932 (20, 497, KOFOID).

* **Birkenmajer, Alexander.** Zur Lebensgeschichte und wissenschaftlichen Tätigkeit von GIOVANNI FONTANA (1395?-1455?). 17, 34-53, 1932.

* — Formula. 19, 364-78, 1933.

* — ANTONIO CERMISONE über die Pest. Query no. 27). 20, 440, 1934.

Birkenmajer, Ludwik Antoni. Stromata COPERNICANA. VII+402 p. Cracow, 1924 (16, 136-38, W. J. ROSE).

Birkner, Ferdinand. Die Rassen und Völker der Menschheit. XII+548 p., 32 pl., 565 fig. (Der Mensch aller Zeiten, 2). Berlin (1913) (2, 237-38, SARTON).

(**al-Bīrūnī**, 973-1048). Das Vorwort zur Drogenkunde des BĪRŪNĪ. Eingeleitet, übersetzt und erläutert von MAX MEYERHOF. 70 p. (Quell. u Stud. z. Gesch. d. Naturw. u. d. Med., 3). Berlin, 1932 (20, 451-54, SARTON).

Blanchet, Léon (1884-1919). CAMPANELLA. 596 p. (Collection historique des grands philosophes.) Paris, 1920 (4, 55-56, SARTON).

Blanton, Wyndham B. Medicine in Virginia in the seventeenth century. XVIII+337 p., 40 pl. Richmond, Va., 1930 (15, 345-49, 1 pl., KOFOID).

Blaringhem, Louis. Les problèmes de l'hérédité expérimentale. 317 p. (Bibl. de Philos. scientif.). Paris, 1919 (3, 295, GUINET).

— PASTEUR et le transformisme, préface de J. COSTANTIN. XIV+261 p. Paris, 1923 (6, 424-25, GUINET).

Bliss, Henry Evelyn. The organization of knowledge and the system of the sciences. With an introduction by JOHN DEWEY. XX+433 p. New York, 1929 (13, 378-79, SARTON).

* **Bloch, Ernst.** Die antike Atomistik in der neueren Geschichte der Chemie. 1, 377-415, 1913.

* — Die chemischen Theorien bei DESCARTES und den Cartesianern. 1, 590-636, 1914.

* — Das chemische Affinitätsproblem, geschichtlich betrachtet. 8, 119-57, 1926.

Bloch, Iwan. Die Prostitution. Erster Band. XXXVI+870 S. (Handbuch der gesamten Sexualwissenschaft in Einzeldarstellungen, Bd. 1). Berlin, 1912 (1, 284-85, SARTON).

—; **Loewenstein, Georg.** Die Prostitution. 728 p. Berlin, 1925 (8, 521-25, D'IRSAY).

Bloch, Marc. Les rois thaumaturges. Etude sur le caractère surnaturel attribué à la puissance royale, particulièrement en France et en Angleterre. VII+542 p., 4 pl. (Publications de la Faculté des lettres de l'Université de Strasbourg, fasc. 19). Strasbourg, 1924 (7, 520-21, SARTON).

Blokh, M. A. Chemical biographical reference book. Prominent chemists and scientists of the XIXth and XXth centuries who have worked in domains of science bordering on chemistry. (In Russian). Vol. 1, XLIV+512 p., 44 port. Leningrad, 1929 (13, 383-86, POGO).

Bodenheimer, Fritz S. Materialien zur Geschichte der Entomologie bis LINNÉ. 2 Bände. Berlin, 1928-29 (13, 388-92; 14, 454-56, SARTON).

Bohn, Georges. Le mouvement biologique en Europe. 144 p. Paris, 1921 (4, 359-60, GUINET).

Boll, Franz (1867-1924); **Curtius, A.** (and others). Vom Altertum zur Gegenwart. Die Kulturzusammenhänge in den Hauptepochen und auf den Hauptgebieten. Skizzen von F. BOLL, A. CURTIUS usw. VIII+308 p. Leipzig, 1919 (4, 89, SARTON).

— Sternglaube und Sterndeutung. Die Geschichte und das Wesen der Astrologie. Unter Mitwirkung von CARL BEZOLD (1859-1923). Dritte Auflage, hrsg. v. W. GUNDEL. XII+211 p., 48 fig., 20 pl. Leipzig, 1926 (9, 476-77, SARTON).

Boll, Marcel. La science et l'esprit positif chez les penseurs contemporains. 262 p. Paris, 1921 (5, 200, GUINET).

(Bolzano, Bernard 1781-1848). Funktionenlehre. Hrsg. und mit Anmerkungen versehen v. KAREL RYCHLÍK. XVI+207 p.-IV p. (BERNARD BOLZANOS Schriften, hrsg. von der Königlichen Böhmischen Gesellschaft der Wissenschaften in Prag. Bd. I). Prague, 1930 (15, 353-55, R. STRUIK).

(Bombelli, Rafael). (Born c. 1530). L'algebra. Opera di RAFAEL BOMBELLI da Bologna. Libri IV e V comprendenti " La parte geometrica " inedita tratta dal manoscritto B. 1569 della Biblioteca dell'Archiginnasio di Bologna. Pubblicata a cura di ETTORE BORTOLOTTI. N. 7 della collezione Per la Storia e la filosofia delle matematiche. IV+302 p,. facs., figs. Bologna, 1929 (14, 425-26, POGO).

* **Bond, John David.** The development of trigonometric methods down to the close of the XVth century. (With a general account of the methods of constructing tables of natural sines down to our days.) 4, 295-323, 14 fig., 1922.

* — RICHARD WALLINGFORD (1292?-1335). 4, 459-65, 1922.

* — Quadripartitum RICARDI WALYNFORDE de sinibus demonstratis. Edidit JOANNES DAVID BOND. 5, 99-115, 1923.

* — RICHARD WALLINGFORD's Quadripartitum. (English translation). 5, 339-63, 22 fig., 1923.

* **Bopp, Karl.** Entwicklungslinien in der Geometrie. 5, 406-08, 1923.

* — Ein wichtiger Satz über die Ellipse des FAGNANO und seine Ergänzung. 5, 400-02, 1923.

Bortolotti, Ettore. Studi e ricerche sulla storia della matematica in Italia nei secoli XVI e XVII. VIII+246 p., 44 fig., 8 pl. Bologna, 1928 (13, 379-82, POGO).

* **Bosmans, Henri** (1852-1928). ANDRÉ TACQUET (S. J.) et son traité d' « Arithmétique théorique et pratique ». 9, 66-82, 2 pl., 1927.

Boubier, Maurice. L'évolution de l'ornithologie. II+308 p. (Nouvelle collection scientifique). Paris, 1925 (8, 515-17, GUINET).

* **Bounoure, Louis.** La vie et l'œuvre de FRÉDÉRIC HOUSSAY (1860-1920). 7, 433-55, 1 pl., 1925.

Bourgin, Hubert. Les systèmes socialistes. 420 p. Paris, 1923 (6, 453-54, GUINET).

Boussinesq, Joseph (1842-1929). Conciliation du véritable déterminisme mécanique avec l'existence de la vie et de la liberté morale. XLIII+220 p. Paris, 1922 (5, 483-84, GUINET).

Boutaric, Augustin. MARCELLIN BERTHELOT (1827-1907). 220 p., 1 port. Paris, 1927 (10, 71-73, GUINET).

Boutroux, Pierre Léon (1880-1922). Les principes de l'analyse mathématique, exposé historique et critique, t. I : Les nombres. Les grandeurs. Les figures. Le calcul combinatoire. Le calcul algébrique. Calcul des fonctions. L'algèbre géométrique. XI+548 p. Paris, 1914 (1, 734-42, E. TURRIÈRE).

— Les principes de l'analyse mathématique (exposé historique et critique), vol. 2, 507 p. Paris, 1919 (4, 96-107, CHILD).

— L'idéal scientifique des mathématiciens. 274 p. Paris, 1920 (4, 93-96, SARTON).

* — L'enseignement de la mécanique en France au XVIIe siècle. 4, 276-94, 1922.

Bouvier, Robert. La pensée d'ERNST MACH. Essai de biographie intellectuelle et de critique. XIV+372 p., port. Paris, 1923 (5, 437-40, GUINET).

Bouyges, Maurice see **al-Ghazzālī** (10, 497-99, MACDONALD).

(**Brahe, Tycho,** 1546-1601). TYCHONIS BRAHE DANI opera omnia edidit I. L. E. DREYER. Auxilio IOANNIS RAEDER. Sumptus fecit G. A. HAGEMANN. Hauniae, 1913 (5, 149-51, SARTON).

Brasch, Frederick E., see **Newton,** Sir **Isaac** (11, 387-93, SARTON).

Breasted, James Henry. The Edwin Smith Papyrus. Some preliminary observations. Mémoire extrait du Recueil dédié à la mémoire

de J. F. CHAMPOLLION. p. 385-429. Paris, 1922 (5, 447-49, SARTON).

— The Edwin Smith surgical papyrus. Published in facsimile and hieroglyphic transliteration with translation and commentary. 2 vols. (Oriental Institute publications., 3 and 4). Chicago, 1930 (15, 355-67, SARTON).

Bréhier, Emile. Histoire de la philosophie allemande. 160 p. Paris, 1922 (5, 471-73, GUINET).

Bréhier, Louis. L'art chrétien. Son développement iconographique des origines à nos jours. 456 p., 233 ills. Paris, 1918 (4, 540-44, SARTON).

Brett, George Sidney. A history of psychology, vols. 2 and 3. London, 1921 (4, 376-78, LIBBY).

Brewster, Edwin Tenney. The understanding of religion. XIV+133 p., 9 ills. Boston, 1923 (7, 162-65, SARTON).

— Creation. A history of non-evolutionary theories. 295 p., 30 pl., Indianapolis, 1927 (9, 462-65, SARTON).

— This puzzling planet. The earth's unfinished story ; how men have read it in the past, and how the wayfarer may read it now. 328 p., ills. Indianapolis, 1928 (12, 341-43, SARTON).

(Britannica year-book, The). A survey of the world's progress since the completion in 1910 of the Encyclopaedia Britannica, eleventh edition, edited by HUGH CHISHOLM. XLIV+1226 p. London, 1913 (1, 290-92, SARTON).

Brönnle, P. The awakening of the soul, from the Arabic of IBN TUFAIL. 87 p. (The wisdom of the East series). (1, 514, MASSON-OURSEL).

Brome, Henry, see **Acres, R. D'** (15, 349-50, SARTON).

* **Brown, D. M.,** see **Oldfather, W. A.** 20, 72-160, 1933.

Brown, James Campbell (1843-1910). A history of chemistry from the earliest times till the present day. XXXI+543 p., 1 port., 106 ills. London, 1913 (1, 279-80, E. BLOCH).

* **Browne, Charles Albert.** EDGAR FAHS SMITH (1854-1928). 11, 375-84, 1 pl., 1928.

* — Scientific notes from the books and letters of JOHN WINTHROP, Jr., (1606-1676). First governor of Connecticut. 11, 325-42, 2 pl., 1928.

Browne, Edward Graville (1862-1926). Arabian medicine, being the Fitzpatrick lectures delivered at the College of Physicians in November 1919 and November 1920. VIII+138 p. Cambridge, 1921 (4, 349-50, MACDONALD).

Brunet, Pierre. MAUPERTUIS. I. Etude biographique (111 p. II. L'œuvre et sa place dans la pensée scientifique et philosophique de XVIIIe siècle. 687+VI p. Paris, 1929 (15, 177-79, METZGER).

— L'introduction des théories de NEWTON en France au XVIIIe siècle. (Avant 1738). VII+355 p. Paris, 1931 (17, 433-35, METZGER).

* — Un grand débat sur la physique de MALEBRANCHE au XVIIIe siècle 20, 367-95, 1934.

Brunn, Walter von, see **Stromayr, Caspar** (9, 367-70, d'IRSAY).

Brunner, Conrad. Über Medizin und Krankenpflege im Mittelalter in Schweizerischen Landen. X+158 p. (Veröffentlichungen der Schweizerischen Gesellschaft für Geschichte der Medizin und der Naturwissenschaften, 1). Zürich, 1922 (5, 450-51, SARTON).

Brunot, Ferdinand. Histoire de la langue française des origines à 1900. T. VI : Le XVIIIe siècle. I^e partie. Le mouvement des idées et les vocabulaires techniques. Facs. 2., La langue des sciences, par MAX FUCHS ; La langue des arts. 340 p. Paris, 1930 (17, 431-33, GUINET).

Brunschvicg, Léon. Les étapes de la philosophie mathématique. XI+591 p. (Bibliothèque de philosophie contemporaine). Paris, 1912 (1, 721-34, EMILE TURRIÈRE).

— L'expérience humaine et la causalité physique. LXVI+625 p. (Bibliothèque de philosophie contemporaine). Paris, 1922 (5, 479-83, METZGER).

— Le génie de PASCAL. XIII+192 p. Paris, 1925 (8, 175-76, METZGER).

— Le progrès de la conscience dans la philosophie occidentale. 2 vols. XXIV+808 p. (Bibliothèque de philosophie contemporaine). Paris, 1927 (10, 98-102, METZGER).

— De la connaissance de soi. 196 p. Paris, 1931 (19, 212-14, BRUNET).

Bryk, Otto J., see **Kepler, Johann** (4, 512-14, SARTON).

Budge, Sir **E. A. Wallis.** An Egyptian hieroglyphic dictionary. With an index of English words, king list and geographical list with indexes, list of hieroglyphic characters, Coptic and Semitic alphabets, etc. CLIV+1356 p. London, 1920 (4, 57-58, SARTON).

Buffon, see **Spallanzani** (2, 209-13, GEORGES-BERTHIER).

Bull, Ludlow, see **Chace, Arnold Buffum** (14, 251-55, SARTON).

Burke, John Butler. The emergence of life. Being a treatise on mathematical philosophy and symbolic logic by which a new theory of space and time is evolved. VIII+396 p. Oxford, 1931 (19, 214-17, H. T. DAVIS).

* **Burr, Alexander C.** Notes on the history of the concept of thermal conductivity. 20, 246-59, 1933.

Bury, John Bagnell. (1861-1927) The idea of progress. An inquiry into its origin and growth. XV+377 p. London, 1920 (4, 373-75, SARTON).

Busco, Pierre. Les cosmogonies modernes et la théorie de la connaissance. 435 p. Paris, 1924 (8, 233-34, GUINET).

Butler, Hiram E. Solar biology. A scientific method of delineating character, diagnosing disease, determining mental, physical and business qualifications, conjugal adaptability ,etc., from date of birth. Twenty-third ed. XL+434 p., ills., port. Applegate, Cal., 1920 (3, 449-50, SARTON).

Caillet, Albert L. Manuel bibliographique des sciences psychiques ou occultes. 3 vols. Paris, 1912 (1, 285-87, SARTON).

Cajori, Florian (1859-1930). OUGHTRED's ideas and influence on the teaching of mathematics. *Monist*, 25, 495-530, Chicago, 1915 (3, 282, J.).

— The works of WILLIAM OUGHTRED. *Monist*, 25, 441-66, 1915 (3, 282, J.).

— A history of the conceptions of limits and fluxions in Great Britain, from NEWTON to WOODHOUSE. VIII+299 p., 11 fig., 2 port. Chicago, 1919 (5, 156-57, P. BOUTROUX).

* — The purpose of ZENO's arguments on motion. 3, 7-20, 1920.

* — History of symbols for n = factorial. 3, 414-18, 1921.

* — Note on the FAHRENHEIT scale. 4, 17-22, 1921.

* — On the history of caloric. 4, 483-92, 1922.

* — Mathematical signs of equality. 5, 116-25, 1923.

* — Empirical generalizations on the growth of mathematical notations. 6, 391-94, 1924.

* — Note on our sign of equality. 6, 507-08, 1 pl., 1924.

* — LEIBNIZ, the master-builder of mathematical notations. 7, 412-29, 1925.

* — A notable case of finger-reckoning in America. 8, 325-27, 1 pl., 1926.

* — WALTER WILLIAM ROUSE BALL (1850-1925). 8, 321-24, 1 pl., 1926.

* — The earliest arithmetic published in America. 9, 391-401, 2 pl., 1927.

* — CIRUELO on the names "arithmetical" and "geometrical" proportions and progressions. 10, 363-66, 1928.

— The early mathematical sciences in North and South America. 155 p., 16 pl. Boston, 1928 (12, 163-65, KARPINSKI).

— A history of mathematical notations. 2 vols. Vol. I. Notation in elementary mathematics. XVI+451 p., 106 fig., Chicago, 1928 (12, 332-36, SARTON).

* — A revaluation of HARRIOT's Artis analyticae praxis. 11, 316-24, 1928.

— The chequered career of FERDINAND RUDOLPH HASSLER, first superintendent of the United States Coast Survey. A chapter in the history of science in America. 245 p., 3 fig., ills. Boston, 1929 (13, 119-21, SARTON).

* — History of determinations of the heights of mountains. 12, 482-514, 13 fig., 1929.

— A history of mathematical notations. Vol. 2, Notations mainly in higher mathematics. XVII+367 p., 20 fig. Chicago, 1929 (13, 129-30, SARTON).

* — A century of American geodesy. 14, 411-16, 4 pl., 1930.

* **Camden, Carroll, Jr.** Astrology in SHAKESPEARE's day. 19, 26-73, 1933.

Campbell, Anna Montgomery. The Black Death and men of learning. XII+210 p. New York, 1931 (18, 195-97, LEAKE).

(**Canano, Ioannes Baptista,** 1515-1578). GIROLAMO DA CARPI 1501-1556). Musculorum humani corporis picturata dissectio (Ferrara, 1541 ?). Facsimile edition annotated by HARVEY CUSHING and EDWARD C. STREETER. 98 p. (Monumenta medica, 4). Florence, 1925 (9, 433-34, SARTON).

Candolle, Alphonse de (1806-1893). Zur Geschichte der Wissenschaften und der Gelehrten seit zwei Jahrhunderten nebst anderen Studien über wissenschaftliche Gegenstände insbesondere über Vererbung und Selektion beim Menschen. Deutsch hrsg. von WILHELM OSTWALD. XX+466 p. Leipzig, 1911 (1, 132, SARTON).

Cannizzaro, Stanislao (1826-1910). Scritti vari e lettere inedite nel centenario della nascita (Associazione italiana di chimica generale ed applicata). VII+486 p., 5 pl. Rome, 1926 (9, 372-74, SARTON).

Carmichael, Robert Daniel. The logic of discovery. IX+280 p. Chicago 1930 (15, 373-76, H. T. DAVIS).

(Carpi, Girolamo da; 1501-56). See **Canano.**

Carra de Vaux, Baron **Bernard.** Notes d'histoire des sciences. *Journal asiatique*, 10, 449-61, Paris, 1917 (3, 434-35, SARTON).

— Les penseurs de l'Islam. Tome 1 : Les souverains ; l'histoire et la philosophie politique. T. 2, Les géographes ; les sciences mathématiques et naturelles. Paris, 1921 (5, 165-67, RUSKA).

Carré, J. R. La philosophie de FONTENELLE ou le sourire de la raison. 735 p. (Bibliothèque de philosophie contemporaine). Paris, 1932 (19, 205-07, METZGER).

Carter, Henry Rose. (1852-1925) Yellow fever. An epidemiological and historical study of its place of origin. Edited by LAURA ARMISTEAD CARTER and WADE HAMPTON FROST. XII+308 p., 5 fig. Baltimore, 1931 (17, 464-66, KOFOID).

Carter, Thomas Francis (1882-1925). The invention of printing in China and its spread westwards. XVIII+282 p., 40 ills. New York, 1925 (8, 361-73, SARTON).

Carus, Paul (1852-1919). The gospel of Buddha, according to old records. XVI+275 p., Chicago, 1st ed., 1894, 2nd ed., 1905 (3, 74, MASSON-OURSEL).

— (L'œuvre indologique du Dr...). A propos d'une réimpression de Nirvana (1913) (3, 73).

— Stories of Buddhism, a trilogy, comprising : Karma, a story of Buddhist ethics, 1903 ; Amitābha, a story of Buddhist theology, 1906 ; Nirvana, a story of Buddhist psychology, 1913 (3, 75, MASSON-OURSEL).

Caspar, Max, see **Kepler, Johannes** (13, 118, SARTON).

Cassirer, Ernst. Substance and function and EINSTEIN's theory of relativity. Translation by WILLIAM C. and MARIE C. SWABEY. XII+465 p. Chicago, 1923 (6, 439-40, H. M. SHEFFER).

Castiglioni, Arturo. Histoire de la médecine. Edition française établie par les soins de l'auteur. Traduction par J. BERTRAND, et F. GIDON. 781 p., 279 ills. Paris, 1931 (16, 468-71, SARTON).

Catalogue des manuscrits alchimiques grecs, publié sous la direction de J. BIDEZ, F. CUMONT, J. L. HEIBERG et O. LAGERCRANTZ. 84 p. Bruxelles, 1924 (7, 507-11, SARTON).

Catalogue des manuscrits alchimiques grecs, publié sous la direction de J. BIDEZ, F. CUMONT, A. DELATTE, O. LAGERCRANTZ, et J. RUSKA. Vols. 5 et 6. Bruxelles, 1928 (12, 165-68, SARTON).

Celebration of the Centennial of the Library of the Medical and Chirurgical Faculty of the State of Maryland, 1830-1930. XII+78 p., 34 pl. Baltimore, 1931 (17, 466, KOFOID).

Chace, Arnold Buffum (1845-1932); **Bull, Ludlow**; **Manning, Henry Parker**; **Archibald, Raymond Clare.** The Rhind mathematical papyrus. British Museum 10057 and 10058. 2 vols. Oberlin, Ohio, 1927-29 (14, 251-55, SARTON).

Chaine, Joseph. Histoire de l'anatomie comparative. VI+461 p. Bordeaux, 1925 (9, 480-82, R. M. MAY).

Chambard, R., see **Axaïs, R. P.** (19, 516-18, SARTON).

Chamberlain, Houston Stewart (1855-1927). GOETHE. 860 p., 2 tables. München, 1912 (1, 519-21, SARTON).

* **Chang, T. T.** CHIA MING's elements of dietetics. 20, 324-34, 1934.

Chapman, P. F. see **Nierenstein, M.**

Charbonnier, Prosper Elie. Essais sur l'histoire de la balistique. 334 p., ills. (Extrait du Mémorial de l'artillerie française). Paris, 1928 (15, 376-80, GUINET).

Chauveau, Amyr Benjamin. Electricité atmosphérique. Premier fascicule : introduction historique. XII+92 p. Paris, 1922 (5, 193-94, GUINET).

Child, J. M. The Lectiones geometricae of ISAAC BARROW. *Monist*, 26, 251-67, 1916 (3, 283, J.).

* — Did FERMAT have a solution of the so-called Pellian equation? 3, 255-62, 1920.

Choulant, Ludwig (1791-1861). History and bibliography of anatomic illustration in its relation to anatomic science and the graphic arts. Translated and edited with notes and a biography by MORTIMER FRANK (1874-1919). XXVII+435 p. Chicago, 1920 (4, 357-59, SARTON).

Chung Kuo jên ming ta tz'ŭ tien. (Encyclopedia of Chinese biography, in Chinese). Shanghai, 1921 (5, 446-47, YUEN REN CHAO).

Ciarcià, Salvatore. Il sistema cosmografico e i Padri della Chiesa. 117 p. Messina, 1923 (8, 212-13, J. K. WRIGHT).

Claparède, Edouard. Comment diagnostiquer les aptitudes chez les écoliers. 300 p. (Bibl. de philos. scientifique). Paris, 1924 (6, 571-72, GUINET).

— See **Flournoy, Th.** (1, 719, SARTON).

Clark-Kennedy, A. E. STEPHEN HALES, D.D., F.R.S. An eighteenth century biography. XII+256 p., 14 pl. Cambridge, 1929 (13, 370-73, SARTON).

* **Clarke, Frances Marguerite.** New light on ROBERT RECORDE. 8, 50-70, 1926.

* — "Essay pour les coniques" of BLAISE PASCAL. Translated by FRANCES MARGUERITE CLARKE. 10, 16-20, 1 pl., 1928.

Clod-Hansen, Abr. (d. 1925). Anatomie mandchoue. Facsimilé du manuscrit no. 11 du fonds oriental de la Bibliothèque royale de Copenhague. Publié par VICTOR MADSEN. Traduction du texte mandchou par VILHELM THOMSEN. 16 p., 90 pl. Copenhagen; 1928 (12, 161, SARTON).

Coates, Harper Havelock, see **Shunjō Hōin** (9, 365-67, SARTON).

Cohen, Ernst. JACOBUS HENRICUS VAN 'T HOFF. Sein Leben und Wirken (Grosse Männer. Studien zur Biologie des Genies, 3). XVI+638 p. Leipzig, 1912 (1, 276-78, SARTON).

Coissac, G. Michel. Histoire du cinématographe, préface de J. L. BRETON. XVI+604 p., 136 fig. Paris, 1925 (9, 125-27, GUINET).

Colding, Ludvig August (1815-1888). Kelka tezi pri la forci. Prizentita a det Kongelige Danske Videnskabernes Selskab (rejala Dana Societo di la Cienci) en la yaro 1843. Traduktita en la linguo internaciona Ido da ingenioro J. P. GJERULFF, kun introduco da W. OSTWALD. *Progreso*, 20 p., Paris, 1913 (1, 522-24, SARTON).

Cole, Francis Joseph. Early theories of sexual generation. X+230 p., 12 pl., 9 fig. Oxford, 1930 (16, 463-65, KOFOID).

* **Collard, Auguste.** GOETHE et QUETELET. Leurs relations de 1829 à 1832. 20, 426-35, 1934.

Collier, V. W. F. Dogs of China and Japan in nature and art. XX+208 p., 179 pl. London, 1921 (5, 444-46, B. LAUFER).

Collins, Edwin. The wisdom of Israel, from the Babylonian Talmud and Midrash Rabboth. Translated from the Aramaic and Hebrew. 60 p. (The wisdom of the East series). (1, 514, MASSON-OURSEL).

Combes, see **Dejust** (13, 134-35, R. M. MAY).

Contenau, Georges. Manuel d'archéologie orientale depuis les origines jusqu'à l'époque d'Alexandre. 3 vols. Paris, 1927-31 (20, 474-78, SARTON).

Coomaraswamy, Ananda K. The arts and crafts of India and Ceylon. XXII+256 p., 225 ills. London, 1913 (2, 404-07, SARTON).

— VISVAKARMĀ. Examples of Indian architecture, sculpture, painting, handicraft. First series : one hundred examples of Indian sculpture. 31 p., 103 pl. London, 1914 (2, 403-04, SARTON).

— Catalogue of the Indian collections in the Museum of Fine Arts, Boston. Part 1. General introduction. Part II, Sculpture. VIII+208 p., 86 pl. Boston, 1923 (6, 73-74, SARTON).

* — On translation : Māyā, Deva, Tapas. 19, 74-91, 1933.

Cordier, Henri (1849-1925). Histoire générale de la Chine et de

ses relations avec les pays étrangers depuis les temps les plus anciens jusqu'à la chute de la dynastie mandchoue. 4 vol., Paris, 1920-21 (4, 530-32, SARTON).

Corner, George W. Anatomical texts of the earlier Middle Ages. A study in the transmission of culture with a revised Latin text of Anatomia Cophonis and translations of four texts. 112 p., 3 pl. Washington, 1927 (9, 452-56, SARTON).

Couchoud, Paul Louis. Le mystère de JÉSUS. 188 p. Paris, 1924 (8, 167-68, GUINET).

Cowdry, Edmund Vincent. (ed.). General cytology. 754 p., 173 figs., 9 pl. Chicago, 1924 (8, 213-15, R. M. MAY).

* **Cowles, Th.** Dr. HENRY POWER, disciple of Sir THOMAS BROWNE. 20, 344-66, 1934.

Cox, Richard T. Time, space and atoms. 154 p. Baltimore, 1933 (20, 484, LENZEN).

Cranmer-Byng, L.; Kapadia, S. A. The wisdom of the East series. London (1, 513-16, MASSON-OURSEL).

Cresson, André. Les réactions intellectuelles élémentaires. 152 p. (Bibliothèque de la philosophie contemporaine, 4). Paris, 1922 (5, 473-74, METZGER).

— Les courants de la pensée philosophique française. 2 vol. Paris, 1927 (9, 489-90, METZGER).

Crucé, Emeric (c. 1590-1648). Le nouveau Cynée, réimpression du texte original de 1623, avec introduction et traduction anglaise par THOMAS WILLING BALCH. XXXI+363 p. Philadelphia, 1909 (2, 418-21, SARTON).

Curtius, A., see **Boll, F.** (4, 89, SARTON).

(**Cusa, Nicolaus de**, 1401-1464). Opera omnia. Iussu et auctoritate Academiae Litterarum Heidelbergensis ad codicum fidem edita. II. Apologia doctae ignorantiae. Edidit RAYMUNDUS KLIBANSKY. XII+49 p. Leipzig, 1932 (20, 457-64, S. KURLAND).

Cushing, Harvey. The life of Sir WILLIAM OSLER (1849-1919). 2 vol., pl. Oxford, 1925 (8, 358-61, SARTON).

Cutler, Carl C. Greyhounds of the sea : the story of the American clipper ship, with a foreword by CHARLES FRANCIS ADAMS, XXVII+592 p., 118 ills. New York, 1930 (15, 381, L. THORNDIKE).

Dacqué, Edgar. Urwelt, Sage und Menschheit. Eine naturhistorisch-metaphysische 5 Bll., Studie. 259 p., fig. München, 1924 (7, 165-67, KLINCKOWSTROEM).

— Natur und Seele. Ein Beitrag zur magischen Weltlehre. 200 p., 1 port. München, 1926 (10, 95-98, KLINCKOWSTROEM).

Dahlmann, F. C. (1785-1860) ; **Waitz, G.** Quellenkunde der Deutschen Geschichte, Achte Auflage unter Mitwirkung von... (42 Mitarbeitern)..., hrsg. von PAUL HERRE. XX+1290 p. Leipzig, 1912 (1, 537-38, SARTON).

* **Dalton, Edward W.** The first sighting of the Antarctic continent. A critical analysis of BISCOE's discovery of Enderby Land. 16, 379-92, 1 pl., 1931.

Dampier-Whetham, William Cecil. A history of science and its relations with philosophy and religion. XXI+514 p., 14 fig. Cambridge, 1929 (14, 263-65, SARTON).
See also **Whetham, W. C. D.**

Dannemann, Friedrich. Die Naturwissenschaften in ihrer Entwicklung und in ihrem Zusammenhange. Vierter Band : Das Emporblühen der modernen Naturwissenschaften seit der Entdeckung des Energieprinzips. X+509 p., 70 fig., 1 port. Leipzig, 1913 (2, 218-22, SARTON).

— Die Naturwissenschaften in ihrer Entwicklung und in ihrem Zusammenhange. 2te Aufl. I. Bd. Von den Anfängen bis zum Wiederaufleben der Wissenschaften. XII+484 p., 64 fig. Leipzig, 1920 (4, 110, SARTON).

— Die Naturwissenschaften in ihrer Entwicklung und in ihrem Zusammenhange. 2te Auflage, Bd. II. Von GALILEI bis zur Mitte des XVIII. Jahrhunderts. X+508 p., 133 fig. Leipzig, 1921 (4, 563-64, SARTON).

— PLINIUS und seine Naturgeschichte in ihrer Bedeutung für die Gegenwart. 251 p. (Klassiker der Naturwissenschaft und Technik, ed. by FRANZ STRUNZ). Jena, 1921 (4, 501-02, W. LIBBY).

— Die Naturwissenschaften in ihrer Entwicklung und in ihrem Zusammenhange. 2te Auflage. III. Bd. Das Emporblühen der modernen Naturwissenschaften bis zur Aufstellung des Energieprinzipes. XII+432 p., 65 fig., 1 port. Leipzig, 1922 (6, 115-16, SARTON).

— Aus der Werkstatt grosse Forscher. Allgemeinverständliche, erläuterte Abschnitte aus den Werken hervorragender Naturforscher aller Völker und Zeiten. Vierte Auflage. XII+442 p. Leipzig, 1922 (5, 198-200, SARTON).

* — Wissenschaft als Einheit. 6, 395-99, 1924.

Dantzig, Tobias. Number, the language of science. A critical survey written for the cultured non-mathematician. VIII+260 p. New York, 1930 (16, 455-59, SARTON).

Darmstaedter, Ernst. Die Alchemie des GEBER. X+202 p., 10 pl. Berlin, 1922 (5, 451-55, RUSKA).

* — Die Sator-Arepo-Formel und ihre Erklärung. 18, 322-29, 1932.

* **Das, Sukumar Ranjan.** Some notes on Indian astronomy. 14, 388-402, 1930.

* — The Jaina calendar. 18, 432-37, 1933.

* **Datta, Bibhutibhusan.** On the relation of MAHĀVĪRA to ŚRĪDHARA. 17, 25-33, 1932.

* — The algebra of NĀRĀYAṆA. 19, 472-85, 1933.

Daudin, Henri. Etudes d'histoire des sciences naturelles. I. De LINNÉ à JUSSIEU. Méthodes de la classification et idée de série en botanique et en zoologie (1740-1790). II. CUVIER et LAMARCK. Les classes zoologiques et l'idée de série animale (1790-1830). Paris, 1926 (10, 502-05, R. M. MAY).

David-Neel, Alexandra. Mystiques et magiciens du Thibet. Préface

de A. D'ARSONVAL. 25 ills., VI+306 p. Paris, 1929 (14, 441-44, SARTON).

— Voyage d'une Parisienne à Lhassa. A pied et en mendiant de la Chine à l'Inde à travers le Thibet. XII+332 p. 28 illus., 1 map. Paris, 1927 (14, 442-44, SARTON).

Davis, Harold T. Philosophy and modern science. XIV+335 p., 9 fig. Bloomington, Indiana, 1931 (18, 204-06, C. J. ANGER).

* **Davis, Tenney L.** The autobiography of DENIS ZACHAIRE. An account of an alchemist's life in the sixteenth century. 8, 287-99, 1 pl., 1926.

* — The first edition of the Sceptical chymist. 8, 71-76, 1926.

* — The vicissitudes of BOERHAAVE's Textbook of chemistry. 10, 33-46, 2 pl., 1928.

* — BOYLE's conception of element compared with that of LAVOISIER. 16, 82-91, 1931.

* — See **Wu, Lu Ch'iang.**

Davis, William Morris. (1850-1934) The coral reef problem. VI+596 p., 227 fig. (American Geographical Society, special publication no. 9, Shaler memorial series). New York, 1928 (11, 399-401, SARTON).

Davison, Ellen Scott (1864-1921). Forerunners of SAINT FRANCIS and other studies. Edited by GERTRUDE R. B. RICHARDS; with a foreword by JAMES T. SHOTWELL. XVI+435 p., port. Boston, 1927 (11, 145-47, SARTON).

Dean, Bashford (1867-1928). A bibliography of fishes. 3 Vols. Vol. 1 and 2 enlarged and edited by CHARLES ROCHESTER EASTMAN (1868-1918). Authors' titles, 1916-1917; vol. 3, extended and edited by EUGENE WILLIS GUDGER with the coöperation of ARTHUR WILBUR HENN, New York, 1916-23 (6, 456-59, SARTON).

Dejust, Verne, Combes, Parat, Urbain, Dujarric de la Rivière, de Saint-Rat. Etudes sur la chimie physiologique de la peau. 381 p. Paris, 1928 (13, 134-35, R. M. MAY).

Delacre, Maurice. Histoire de la chimie. XVI+632 p. Paris, 1920 (4, 84, GUINET).

Delatte, Armand. Anecdota atheniensia. T. 1. Textes grecs inédits relatifs à l'histoire des religions. VIII+740 p. (Bibliothèque de la faculté de philosophie de l'Université de Liége, fasc. 36). Liége, 1927 (12, 328-30, SARTON).

— La catoptromancie grecque et ses dérivés. 221 p., 13 pl. (Bibliothèque de la Faculté de philosophie et lettres de l'Université de Liége, 48). Liége, 1932 (20, 478-80, LATTIN).

Deny, Jean. Sommaire des archives turques du Caire. Société royale de Géographie d'Egypte (Publications spéciales sous les auspices de S. M. Fouad Ier). VIII+638 p., 1 map, 56 pl. Cairo, 1930 (15, 187-88, MEYERHOF).

Deonna, Waldemar. L'archéologie. Sa valeur, ses méthodes : 3 vols. Les méthodes archéologiques ; Les lois de l'art ; Les rythmes artistiques. Paris, 1912 (1, 745-54, SARTON).

* — Un précurseur de la théorie actuelle des origines de l'art (JACQUES GAFFAREL). 1, 655-60, 1914.

* — Quelques réflexions sur la théorie des origines de l'art dans ses relations avec les tendances actuelles. 2, 100-05. 1914.

(**Descartes, René,** 1596-1650). The geometry of RENÉ DESCARTES. Translated from the French and Latin by DAVID EUGENE SMITH and MARCIA L. LATHAM. With a facsimile of the first ed., 1637. 246 p., port. Chicago, 1925 (8, 173-75, SARTON).

Dessoir, Max. Vom Jenseits der Seele. Die Geheimwissenschaften in kritischer Beleuchtung. 6. Auflage. XIV+562 p., 4 pl. Stuttgart 1931 (17, 453, v. KLINCKOWSTROEM).

Deussen, Paul (1845-1919). The system of the Vedānta according to BĀDARĀYAṆA's Brahma-Sūtras and ÇANKARA's commentary thereon set forth as a compendium of the dogmatics of Brahmanism from the standpoint of ÇANKARA, translated by CHARLES JOHNSTON. XV+513 p. Chicago, 1912 (2, 407-08, SARTON).

* **Dickinson, Henry W.** J. O. HALLIWELL and the Historical Society of Science (London 1841). 18, 127-32, 1932.

Dickson, Leonard Eugene. History of the theory of numbers. 3 vols. Washington, 1919-23 (3, 446-48; 4, 107-08; 6, 96-98; CHILD).

Diels, Hermann (1848-1922). Antike Technik. Sieben Vorträge. Zweite Auflage. VIII+243 p., 78 fig., 18 pl., 1 frontispiece. Leipzig, 1920 (3, 433-34, SARTON).

Diés, A., see **Tannery, Paul** (15, 179-80, GUINET)

Dijksterhuis, Eduard Jan. Val en worp. Een bijdrage tot de geschiedenis der mechanica van Aristoteles tot Newton. VIII+466 p. Groningen, 1925 (8, 378-79, WIELEITNER).

Dimier, Louis. BUFFON. 308 p. Paris, 1919 (4, 327-28, SARTON).

Dingler, Hugo. Physik und Hypothese. Versuch einer induktiven Wissenschaftslehre nebst einer kritischen Analyse der Fundamente der Relativitätstheorie; XI+200 p. Berlin, 1921 (4, 385, H. M. SHEFFER).

— Die Grundlagen der Physik. Synthetische Prinzipien der mathematischen Naturphilosophie. XIV+336 p. Berlin, 1923 (6, 572-73, H. M. SHEFFER).

Discovery. A monthly popular Journal of Knowledge. Edited by A. S. RUSSELL. London, 1920 (3, 309, SARTON).

Disney, Alfred N.; Hill, Cyril F.; Baker, Wilfred E. Watson. Origin and development of the microscope. 303 p., 30 pl., 36 fig. London, 1928 (20, 495-97, KOFOID).

Dohrn, Max, see **Helmholtz, Hermann von** (20, 287-90, E. WOLF).

Dorveaux, Paul. Le livre des simples médecines. Traduction française du Liber de simplici medicina dictus Circa instans de PLATEARIUS, tirée d'un manuscrit du XVIIIe siècle (Ms. 3113 de la Bibliothèque Sainte-Geneviève de Paris) et publiée pour la première fois. XXIV+255 p. (Publications de la Société française d'histoire de la médecine, 1). Paris (1, 517-18, SARTON).

Doublet, Edouard L. Histoire de l'astronomie. 572 p. Paris, 1922 (5, 172, GUINET).

* **Drecker, Joseph** (1853-1931). Das planisphaerium des CLAUDIUS PTOLEMAEUS. Uebersetzung von J. DRECKER. 9, 255-78, 14 fig., 1927.

*,— Des JOHANNES PHILOPONOS Schrift über das Astrolab. 11, 15-44, 3 fig., 1928.

* — HERMANNUS CONTRACTUS über das Astrolab. 16, 200-19, 6 fig., 1931.

Drewitt, F. G. Dawtrey. The note-book of EDWARD JENNER in the possession of the Royal College of Physicians of London. With an introduction of JENNER's work as a naturalist. VIII+49 p., port. Oxford, 1931 (17, 435, KÓFOID).

Drews, Arthur C. H. Das MARKUS-Evangelium als Zeugnis gegen die Geschichtlichkeit JESU. 319 p., 12 fig., 12 pl. Jena, 1921 (7, 158-62, RUSKA).

— Der Sternhimmel in der Dichtung und Religion der alten Völker und des Christentums. Eine Einführung in die astral mythologie. 316 p., 25 fig., 12 pl., port. Jena, 1923 (7, 158-62, RUSKA).

— Die Entstehung des Christentums aus dem Gnostizismus. 389 p. Jena, 1924 (7, 158-62, RUSKA).

Dreyer, J. L. E., (1852-1926) see **Brahe, Tycho** (5, 149-51, SARTON).

Driesch, Hans. The history and theory of vitalism. Translation by C. K. OGDEN (Revised and in part rewritten for the English edition by the author). VIII+239 p. London, 1914 (3, 439-40, SARTON).

Dubreuil-Chambardel, Louis. Les médecins dans l'ouest de la France aux XIe et XIIe siècles. XVI+292 p. Paris, 1914 (3, 279, C. SINGER).

Duguet, Firmin. Le pèlerinage de la Mecque au point de vue religieux, social et sanitaire. Préface de JUSTIN GODART. XII+357 p., 8 pl. Paris, 1932 (20, 499-503, SARTON).

Duhem, Pierre (1861-1916). Le système du monde. Histoire des doctrines cosmologiques de PLATON à COPERNIC. Vol. 1, 512 pl. Paris, 1913 (2, 203-04, SARTON).

Dujarric de la Rivière, see **Dejust** (13, 134-35, R. M. MAY).

* **Durand, Dana B.** The earliest modern maps of Germany and Central Europe. 19, 486-502, 3 pl., 1933.

Dussaud, René. Les civilisations préhelléniques dans le bassin de la mer Egée ; 2*e* éd. x+482 p. Paris, 1914 (4, 56, SARTON).

Dutcher, George Matthew ; Shipman, Henry Robinson ; Fay, Sidney Bradshaw ; Shearer, Augustus Hunt ; Allison, William Henry (ed.). A guide to historical literature. XXVIII+1222 p. New York, 1931 (17, 453-64, J. MAYER).

Dyck, Walther von. GEORG VON REICHENBACH. Deutsches Museum Lebensbeschreibungen und Urkunden. Bd. 1, II+140 p. München 1912 (1, 275-76, SARTON).

Eastman, Charles Rochester, see **Dean, Bashford** (6, 456-59, SARTON).

Eckert, Max. Die Kartenwissenschaft : Forschung und Grundlagen zu einer Kartographie als Wissenschaft. 2 Vols. Berlin, 1921-25 (8, 517-19, J. K. WRIGHT).

Eckstein, Gustav. NOGUCHI. XII+419 p., 8 pl. New York, 1931 (18, 200-02, KOFOID).

Eisenstein, Judah David. Ozar massaoth, a collection of itineraries by Jewish travellers to Palestine, Syria, Egypt, and other countries... with maps, notes and index. Selected and edited (vol. I, Hebrew text privately published). 352 p. New York, 1926 (11, 147-49, J. FINKEL).

(Electrical standards, committee on). Reports of the Committee on electrical standards appointed by the British Association for the Advancement of Science. Reprinted by permission of the Council. A record of the history of absolute units and of Lord KELVIN's work in connexion with these. XXIV+ 783 p. Cambridge, 1913 (2, 217-18, SARTON).

Eliot, Sir Charles N. E. Hinduism and Buddhism, an historical sketch. 3 Vols. London, 1921 (5, 163, MASSON-OURSEL).

* **Ellis, C. A.**, see **Oldfather, W. A.**, 20, 72-160, 1933.

Elsbach, Alfred C. KANT und EINSTEIN. Untersuchungen über das Verhältnis der modernen Erkenntnistheorie zur Relativitätstheorie. VIII+374 p. Berlin, 1924 (6, 573-74, H. M. SHEFFER).

Endō, T. (ob. 1915 aet. 72). History of Japanese mathematics, revised and enlarged (in Japanese). With notes by MIKAMI, OKAMOTO and ŌTANI and with a biography of the author by MIKAMI. 702 p. Tokyo 1918 (4, 70-72, Y. MIKAMI).

Enriques, Federigo. Scienza e razionalismo. XVI+304 p. Bologna, 1912 (1, 541-42, MIELI).

— Per la storia della logica : i principii e l'ordine della scienza nel concetto dei pensatori matematici. 302 p. Bologna, 1922 (5, 469, H. M. SHEFFER).

Erlanger, Baron Rodolphe d'. La musique arabe. T. I. AL-FĀRĀBĪ, ABŪ N-NAṢR MUḤAMMAD IBN MUḤAMMAD IBN TARKHĀN IBN UZLAGH. Grand traité de la musique. Kitābu l-mūsīqī al-Kabīr. Livres I et II. Traduction française. XXVIII+329 p., 125 fig. Paris, 1930 (20, 280-83, SARTON).

Ernout, Alfred, see **Lucrece** (4, 47-48, SARTON).

Essig, Edward Oliver. A history of entomology. X+1029 p., 263 fig. New York, 1931 (17, 447-50, KOFOID).

Evans, Joan, see **Stader, Paul.**

Exsteens, Maurice. La préhistoire à la portée de tous. 113 p., 607 fig. Bruxelles, 1913 (1, 744, JORGE ENGERRAND).

Faber, Knud. Nosography in modern internal medicine. With an introductory note by RUFUS COLE. XIII+222 p., 21 port. New York, 1923 (6, 98-99, SARTON).

Faerber, Eduard. Die geschichtliche Entwicklung der Chemie. XII+312 p., 4 pl. Berlin, 1921 (5, 465-66, E. BLOCH).

* — Zur Geschichte der Zuordnung von Stoff und Eigenschaft. 16, 425-38, 1931.

* — MAGNAL, fl. 1709 and the use of dyes to detect physiological functions. (Query no. 37). 20, 445, 1934.

Fahie, John Joseph. Memorials of GALILEO GALILEI, 1564-1642. Portraits and paintings, medals and medallions, busts and statues, monuments and mural inscriptions. XXIV+172 p., 20 port., 42 ills. Leamington, 1929 (14, 250-51, SARTON).

Fārābī, Abū Naṣr al-, d. 950-51). Iḥṣa' al-'ulūm. (Enumeration or classification of the sciences). Edition of the Arabic text together with Arabic preface and notes by 'UTHMĀN MUḤAMMAD AMĪN. 104 p. Cairo, 1350 (1931) (19, 201-03. SARTON).

— Catálogo de las Ciencias. Edición y traducción Castellana por ANGEL GONZÁLEZ PALENCIA, Catedrático de literatura arábigo-española en la Universidad. Publicaciones de la Facultad de filosofía y letras. Universidad de Madrid, volumen II. XX+176-84 p. Madrid, Maestre, 1932 (20, 450-51, MACDONALD).

Faraday, Michael (1791-1867). FARADAY's diary. Being the various philosophical notes of experimental investigation made during the years 1820-1862. Published under the editorial supervision of THOMAS MARTIN, with a foreword by Sir WILLIAM BRAGG. Vols 1, 2. London, 1932 (20, 472-74, SARTON).

Farmer, Henry George. Clues for the Arabian influence on European musical theory. *Journal of the Royal Asiatic Society*, 61-80, Jan. 1925 (8, 508-11, SARTON).

— A history of Arabian music to the XIIIth century. XV+264 p., 3 pl. London, 1929 (13, 375-76, SARTON).

* — Greek theorists of music in Arabic translation. 13, 325-33, 1930.

— Historical facts for the Arabian musical influence. XII+376 p. London, 1930 (15, 370-72, MACDONALD).

— The organ of the ancients. From eastern sources (Hebrew, Syriac, and Arabic). With a foreword by F. W. GALPIN. XXIII+185 p., 16 fig. London, 1931 (17, 278-82, SARTON).

Favaro, Antonio (1847-1922). " Amici e corrispondenti di GALILEO GALILEI. XXIX, VINCENZIO VIVIANI," *Atti del Reale Istituto di scienze, lettere ed arti*, LXXII, pte seconda, 1-155, port., Venezie, 1912 (1, 120-22).

* — Il " Carmen de ponderibus " di GUARINO VERONESE. 1, 205-07, 1913.

* — Di NICCOLÒ TARTAGLIA e della stampa di alcune delle sue opere con particolare riguardo alla " Travagliata inventione." 1, 329-40, 1913.

Favre, Adrien. Les origines du système métrique. 242 p. Paris, 1931 (16, 449-50, C. D. HELLMAN).

Fay, Sidney Bradshaw, see **Dutcher, George Matthew** (17, 453-64, J. MAYER).

Fehr, Henri; Flournoy, Th.; Claparède, Ed. Enquête de l' « Enseignement mathématique » sur la méthode de travail des mathématiciens. Deuxième édition conforme à la première, suivie d'une note sur l'Invention mathématique par HENRI POINCARÉ. 137 p. Paris, 1912 (1, 719, SARTON).

Feldhaus, Franz M. Ruhmesblätter der Technik. Von den Urerfindungen bis zur Gegenwart. Zweite Auflage. 2 Teile. Leipzig 1924-26 (9, 378-80, v. KLINCKOWSTROEM).

— Die Technik der Antike und des Mittelalters. 442 p., 452 ill., 15 pl. (Museum der Weltgeschichte. Die staatliche, wirtschaftliche, soziale, geistige und kulturelle Entwicklung der Völker in Einzeldarstellungen). Potsdam, 1931 (16, 167-69, SARTON).

Feldman, William Moses. Rabbinical mathematics and astronomy. VIII+232 p. London, 1931 (19, 208-12, GANDZ).

Ferckel, Christoph. Die Gynaekologie des THOMAS VON BRABANT. Ein Beitrag zur Kenntnis der mittelalterlichen Gynäkologie, und ihrer Quellen (Alte Meister der Medizin und Naturkunde, V). 83 p., 21 pl. München, 1912 (1, 271-72, SARTON).

* **Ferguson, John** (1837-1916). Notes on the work of POLYDORE

VERGIL (1470?-1555?) "De inventoribus rerum." 17, 71-93, 1 pl., 1932.

(Fermat, Pierre de, 1601-1665). Œuvres de FERMAT, publiées par les soins de PAUL TANNERY et CHARLES HENRY. Tome quatrième : Compléments par CHARLES HENRY. x+277 p. Paris, 1912 (1, 274, SARTON).

Ferrand, Gabriel. Introduction à l'astronomie nautique arabe (Bibliothèque des géographes arabes, vol. 1). XII+272 p., 25 fig. Paris, 1928 (13, 127-28, SARTON).

Ferrière, Adolphe. La loi du progrès en biologie et en sociologie et la question de l'organisme social. Etude précédée d'une introduction philosophique sur la méthode en sociologie. XII+680 p. Paris, 1915 (6, 574-76, GUINET).

Ferton, Charles. La vie des abeilles et des guêpes. Œuvres choisies, groupées et annotées par ETIENNE RABAUD et FRANÇOIS PICARD. XVI+376 p., 72 fig. Paris, 1923 (8, 191-92, GUINET).

Fester, Gustav. Die Entwicklung der chemischen Technik bis zu den Anfängen der Grossindustrie. Ein technologisch-historischer Versuch. VIII+225 p. Berlin, 1923 (6, 89, RUSKA).

* **Fettweis, Ewald.** Ueber die Entstehung der Messkunst. 13, 334-39, 1930.

Fischer, Emil (1852-1919). Aus meinem Leben. 201 p., 3 port. Berlin, 1922. (5, 440-41, E. BLOCH).

Fischer, Hermann. Mittelalterliche Pflanzenkunde. VIII+326 p., 70 ill. München, 1929 (15, 367-70, SARTON).

Fischer, Joseph (S. J.), see **Ptolemy** (20, 267-70, SARTON).

Fleming, John Ambrose. Fifty years of electricity. The memories of an electrical engineer. XII+371 p., ills. London, 1921 (6, 71-73, SARTON).

Flournoy, Theodore, see **Fehr, Henri** (1, 719, SARTON).

Fobes, Francis Howard, see **Aristotle** (3, 278-79, SARTON).

Foerster, Norman (ed.). Humanism and America. Essays on the outlook of modern civilisation. XVII+294 p. New York, 1930 (14, 446-49, SARTON).

Fonahn, A. Arabic and Latin anatomical terminology chiefly from the Middle Ages. (Videnskapsselskapets Skrifter, II). 174 p. Kristiania, 1922 (5, 170-72, SARTON).

Forel, Auguste. Le monde social des fourmis du globe comparé à celui de l'homme. 5 tomes. Geneva, 1921-23 (6, 578-80, R. M. MAY).

Forke, Alfred. The world-conception of the Chinese. Their astronomical, cosmological and physico-philosophical speculations. XIV+300 p. London, 1925 (8, 373-75, SARTON).

Forke, Anton. YANG CHU's Garden of Pleasure, from the Chinese. Introduction by HUGH CRANMER-BYNG. 64 p. (The wisdom of the East series). (1, 516, MASSON-OURSEL).

Formichi, Carlo. AÇVAGHOSA, poeta del Buddhismo. XVI+408 p. Bari, 1912 (1, 115-17, MASSON-OURSEL).

Fournier, d'Albe, Edmund Edward (1868-1933). The life of Sir WILLIAM CROOKES. With a forewordby Sir OLIVER LODGE. XX+413 p., 4 port. London, 1923 (6, 549-53, SARTON).

Frank, Erich. PLATO und die sogenannten Pythagoreer. Ein Kapitel aus der Geschichte des griechischen Geistes. X+308 p., Halle (Saale), 1923 (6, 48-52, RUSKA).

Frazer, Sir **James George.** The belief in immortality and the worship of the dead. Vol. I. The belief among the aborigenes of Australia, the Torres Straits Islands, New Guinea and Melanesia. XXI+495 p. (The Gifford lectures, St. Andrews, 1911-1912). London, 1913, (1, 540, SARTON).

— Le rameau d'or, édition abrégée, traduite par Lady FRAZER. 722 p. Paris, 1924 (8, 234-36, GUINET).

Frere, Catherine Frances. A proper newe booke of cokerye. With notes, introduction and glossary; together with some account of

domestic life, cookery and feasts in Tudor days, and of the first owners of the book, MATTHEW PARKER, Archbishop of Canterbury, and MARGARET PARKER his wife. CLXIV+124 p. Cambridge, 1913 (2, 208, A. ARBER).

Freshfield, Douglas W. (ob. 1934, ae. 89); **Montagnier, Henry F.** The life of HORACE BÉNÉDICT DE SAUSSURE. XII+479 p., ills. London, 1920 (6, 64-71, SARTON).

Freud, Siegmund. Introduction à la psychanalyse. Traduction de l'allemand par S. JANKELEVITCH. 484 p. Paris, 1922 (5, 196-98, GUINET).

Frick, Heinrich. GHASĀLĪ's Selbstbiographie. Ein Vergleich mit AUGUSTINS Konfessionen. IV+84 p. (Veröffentlichungen des Forschungs Instituts für vergleichende Religionsgeschichte an der Universität Leipzig, Nr. 3). Leipzig, 1919 (4, 508, MACDONALD).

Fries, Theodor Magnus (1832-1913). See **Jackson, B. D.**

Frischeisen-Köhler, Max. Jahrbücher der Philosophie. Eine kritische Uebersicht der Philosophie der Gegenwart. Herausgegeben in Gemeinschaft mit zahlreichen Fachgenossen. Erster Jrg. XI+384 p. Berlin, 1913 (2, 243-44, SARTON).

Fuchs, Max, see **Brunot, Ferdinand** (17, 431-33, GUINET).

Fulton, John F. Selected readings in the history of physiology. XX+317 p., frontispiece, 60 figs. Springfield, Ill., 1930 (15, 386-88, S. V. LARKEY, note by SARTON).

— Physiology. XVI+141 p., frontispiece, 7 ills. (Clio Medica series 5). New York, 1931 (16, 174-76, Leake).

— A bibliography of the Honourable ROBERT BOYLE, Fellow of the Royal Society. Reprinted from the *Oxford Bibliographical Society Proceedings and Papers*, 3, pt. 1, p. 1-172, 1932 (19, 204, T. L. DAVIS).

* — ROBERT BOYLE and his influence on thought in the seventeenth century. 18, 77-102, 1932.

Gabius, P. Denkökonomie und Energieprinzip. XIII+208 p. Berlin, (1913) (1, 542, E. BLOCH).

Gabrieli, Giuseppe. Manuale di bibliografia musulmana. Parte prima. Bibliografia generale. x+491 p. (Manuali coloniali pubblicati a cura del ministerio delle colonie). Rome, 1916 (5, 449-50, SARTON).

* — HUNĀYN IBN ISHĀQ. 6, 282-92, 1924.

* — Medici e scienziati Arabi : ALI IBN RIDWĀN. 6, 500-06, 1924.

* — ANTONIO FAVARO (1847-1922) e gli studi italiani di storia della scienza. 7, 456-67, 1 pl., 1925.

* — FAKHR-AL-DIN AL-RAZI. 7, 9-13, 1925.

Galloway, J. J. A manual of foraminifera. xiv+483 p., 42 pl. (James Furman Kemp memorial series, 1). Bloomington, Indiana, 1933 (20, 498-99, KOFOID).

* **Gandz, Solomon.** The origin of angle-geometry. 12, 452-81, 1 fig., 1929.

* — The knot in Hebrew literature, or from the knot to the alphabet. 14, 189-214, 1930.

* — The origin of the Ghubār numerals, or The Arabian abacus and the articuli. 16, 393-424, 1931.

— See **Mishnat ha-middot** (20, 274-80, W. THOMSON).

* **Gānguli, Sāradākānta.** Notes on Indian mathematics. A criticism of GEORGE RUSBY KAYE's interpretation. 12, 132-45, 1929.

García del Real, Eduardo. Historia de la medicina en España. 1148 p. Madrid, 1921 (6, 568-69, GUINET).

Garrison, Fielding H. An introduction to the history of medicine (with medical chronology, suggestions for study and bibliographic data). Third ed., 942 p., 257 port. Philadelphia, 1921 (4, 554-56, SARTON).

— An introduction to the history of medicine. With medical chronology, suggestions for study and bibliographic data. Fourth edition. 996 p., 286 port., ills. Philadelphia, 1929 (13, 137-38, SARTON).

Gathorne-Hardy, Geoffrey Malcolm. The Norse discoverers of America. The Wineland sagas translated and discussed. 304 p. Oxford, 1921 (4, 505-08, H. HERMANNSSON).

Gaudefroy-Demombynes, Maurice. Le pèlerinage à la Mekke : étude d'histoire religieuse. VIII+332 p., 1 pl. (Annales du Musée Guimet, Bibliothèque d'études, 33). Paris, 1923 (8, 209-10, MACDONALD).

— La Syrie à l'époque des Mamelouks d'après les auteurs arabes. Description géographique, économique et administrative précédée d'une introduction sur l'organization gouvernementale. CXX+288 p. (Haut-Commissariat de la République française en Syrie et au Liban ; Bibliothèque Archéologique et Historique, 3). Paris, 1923 (6, 561-63, MACDONALD).

Geikie, Sir **Archibald** (1835-1924). A long life's work. An autobiography. XII+426 p. London, 1924 (7, 132-35, SARTON).

* **Georges-Berthier, Aug.** (1888-1914). Le mécanisme cartésien et la physiologie au XVIIe siècle. 2, 37-89, 1914.

* — Le mécanisme cartésien et la physiologie au XVIIe siècle. 3, 21-58, 1920.

Gerhardt, Carl Immanuel (1816-1899). The early mathematical manuscripts of LEIBNIZ, translated from the Latin texts with critical and historical notes, by J. M. CHILD. 238 p. Chicago, 1920 (4, 510-12, P. BOUTROUX).

Gerlach, J. E. Kritik der mathematischen Vernunft. 162 p. Bonn, 1922 (5, 470, WIELEITNER).

Gerland, Ernst (1838-1910). Geschichte der Physik. Erste Abteilung : Von den ältesten Zeiten bis zum Ausgange des achtzehnten Jahrhunderts, X+762 p. München, 1913 (1, 527-29, SARTON).

Germain, Louis, see **Jacques de Morgan** (8, 519-21, GUINET).

(**al-Ghāfiqī, Aḥmad ibn Muḥammad,** d. 1165). The abridged version of " The book of simple drugs " of AḤMĀD IBN MUḤAMMAD AL-GHĀFIQĪ by GREGORIUS ABU'L-FARAG (BARHEBRAEUS). Edited

from the only two known manuscripts with an English translation, commentary and indices by M. MEYERHOF and G. P. SOBHY. 236 p. (The Egyptian University, no. 4). Cairo, 1932 (20, 454-57, SARTON).

(**al-Ghazzālī**, 1058-1111). Tahafot al-falasifat. Texte Arabe établi et accompagné d'un sommaire latin et d'index. Par MAURICE BOUYGES (S. J.). XXX+448 p. Beyrouth, 1927 (10, 497-99, MACDONALD).

Giles, Lionel. Taoist teachings, from the Book of LIEH TZU, from the Chinese by LIONEL GILES. 121 p. The Wisdom of the East series). (1, 516, MASSON-OURSEL).

Gillain, O. La science égyptienne. L'arithmétique au Moyen Empire. (Edition de la Fondation Egyptologique Reine ELISABETH). 342 p. Bruxelles, 1927 (11, 395-98, ARCHIBALD).

Ginzburg, Benjamin. The adventure of science. XVI+487 p., 8 ports. New York, 1930 (16, 157-58, KOFOID).

Goblot, Edmond. Traité de logique. Préface de EMILE BOUTROUX. XXIII+412 p. Paris, 1918 (3, 306-07, SARTON).

— Le système des sciences. (Le vrai, l'intelligible, le réel). 259 p. Paris, 1922 (4, 565, GUINET).

* — GASTON MILHAUD. 3, 391-95, 1 pl., 1925.

Goguel, Maurice. JÉSUS DE NAZARETH, mythe ou histoire. 314 p. Paris ,1925 (7, 167-68, GUINET).

Goldziher, Ignacz (1850-1921). Le dogme et la loi de l'Islam. Histoire du dévéloppement dogmatique et juridique de la religion musulmane. Traduction de FÉLIX ARIN. VIII+318 p. Paris, 1920 (4, 64-66, MACDONALD).

Gonçal de Reparaz (Fill). Catalunya a les mars. Navegants, mercaders i cartògrafs catalans de l'edat mitjana i del renaixement. Contribució a l'estudi de la història del comerç i de la navegació de la Mediterrània. Pròleg de GONÇAL DE REPARAZ. 252 p. (in Catalan). Barcelona, 1930 (16, 173, POGO).

González Palencia, Ángel. Los Mozárabes de Toledo en los siglos

XII y XIII. Cuatro volúmenes en folio. Volumen preliminar, Estudio e indices. 3 vols. Madrid, 1926-30 (15, 183-87, SARTON).

— See **Fārābī, al-** (20, 450-51, MACDONALD).

Gould, Rupert Thomas. The marine chronometer. Its history and development. With a foreword by Sir FRANK W. DYSON. XVI+287 p., 39 pl., 85 fig. London, 1923 (6, 122-29, SARTON).

Graebe, Carl. Geschichte der organischen Chemie. 1. Bd. X+416 p. Berlin, 1920 (4, 361-65, A. J. HOPKINS).

Graesse, Johann G. Th. (1814-1885). Kunstgewerbliche Altertümer und Kuriositäten. Führer für Sammler und Liebhaber von Gegenständen der Kleinkunst, von Antiquitäten sowie von Kuriositäten. Begründet von J. G. TH. GRAESSE, fortgeführt von F. JAENNICKE. 6te Aufl. samt Zeittafel und Register bearbeitet von FRANZ M. FELDHAUS. 262 p. Berlin, 1920 (4, 82, SARTON).

Grandmaison, Léonce de (1868-1927). JÉSUS dans l'histoire et dans le mystère. VIII+80 p. Paris, 1925 (8, 167-68, GUINET).

Grasset, Joseph (1849-1918). La biologie humaine (Bibl. de philosophie scientifique). 344 p. Paris, 1917 (3, 88, GUINET).

— Devoirs et périls biologiques. 546 p. (Bibl. de philosophie contemporaine). Paris, 1917 (3, 88, GUINET).

— L'idéalisme positif. *Revue philosophique*. Paris, 1917 (3, 88, GUINET).

— La science et la philosophie. 179 p. (Bibl. internationale de critique). Paris, 1918 (3, 88, GUINET).

— Le dogme transformiste. 158 p. (Biblioth. internationale de critique). Paris, 1918 (3, 88, GUINET).

Greenstreet, W. J., see **Newton, Isaac** (11, 387-93, SARTON).

Grousset, René. Histoire de l'Extrême-Orient. 2 vols. Paris, 1929 (14, 437-41, SARTON).

Guareschi, Icilio (1847-1918). FRANCESCO SELMI e la sua opera

scientifica. *Memorie della Reale Accademia delle scienze di Torino*, 62, 125-272, port., Torino, 1911 (1, 123-24, SARTON).

— La chimica in Italia dal 1750 al 1800, parte III. (Storia della chimica, 8). Estratto del Supplemento Annuale all'Enciclopedia di chimica, 28, p. 395-470, Torino, 1912 (1, 122).

* — ASCANIO SOBRERO nel centenario della sua nascita. 1, 351-58, 1913.

* — Nota sulla storia del movimento browniano. 1, 47-52, 1913.

* **Gudger, Eugene Willis.** PLINY's Historia naturalis. The most popular natural history ever published. 6, 269-81, 1924.

* — Some old time figures of the shipholder, Echeneis or Remora, holding the ship. 13, 340-52, 9 fig., 1930.

— See **Dean, Bashford** (6, 456-59, SARTON).

* **Guillemin, Ernst Adolph.** Early developments in electro-magnetic theory. With two unpublished letters by ANDRÉ MARIE AMPÈRE. 18, 118-26, 1 facs., 1932.

Guilleminot, Hyacinthe. La matière et la vie. 318 p. (Bibl. de philos. scientif.) Paris, 1919 (3, 296-97, GUINET).

* **Guinet, Léon.** REMY et GÉHIN, les inventeurs français de la pisciculture. 5, 403-05, 1923.

* — EMILE LITTRÉ (1801-1881). 8, 77-102, 1 pl., 1926.

Guitard, Eugène. Deux siècles de presse au service de la pharmacie et cinquante ans de l' « Union pharmaceutique ». 2e éd. v+316 p., 22 ills. Paris, 1913 (1, 529-30, SARTON).

Gulat-Wellenburg, W. von; Klinckowstroem, Graf **Carl v.; Rosenbusch, Hans.** Der Physikalische Mediumismus. VIII+494 p. (Der Okkultismus in Urkunden, hrsg. von MAX DESSOIR). Berlin, 1925 (8, 728-31, ROBACK).

Gunther, Robert Theodore. Further correspondence of JOHN RAY. XXIV+332 p., ills., 2 port., 2 pl., 6 fig. (Ray Society, 114). London, 1928 (12, 326-28, SARTON).

— Early science in Oxford. 7 vols. Oxford, 1920-30 (6, 449-53; 8, 375-77; 13, 118; 14, 233-35, SARTON; 15, 174-77, PELSENEER).

— The astrolabes of the world. Vol. I : The Eastern astrolabes; Vol. II : The Western astrolabes . Oxford, 1932 (20, 310-16; 492-95, POGO).

Hale, George Ellery. The depths of the universe. XVI+98 p., 45 ills. New York, 1924 (7, 152-53, SARTON).

Hall, G. Stanley (1846-1924). Life and confessions of a psychologist. 623 p. 15 pl. New York, 1924 (7, 141-43, R. M. MAY).

(**Haller, Albrecht von,** 1708-1777). HALLERS Briefe an JOHANNES GESNER (1728-1777). Herausgegeben, eingeleitet und mit Anmerkungen versehen von HENRY E. SIGERIST (*Abhdl. der Königlichen Gesell. der Wiss. zu Göttingen*, 11). VIII+576 p. Berlin, 1923 (6, 419, SARTON).

(**Halley, Edmund,** 1656-1742). Correspondence and papers, preceded by an unpublished memoir of his life by one of his contemporaries and the " Eloge " by D'ORTOUS DE MAIRAN. Arranged and edited by EUGENE FAIRFIELD MACPIKE. 300+IX p. Oxford, 1932 (20, 470-72, BOBROVNIKOFF).

Hammer-Jensen, Mrs. **Ingeborg.** Die älteste Alchemie. 159 p. (Danish Academy of Sciences). Copenhagen, 1921 (4, 523-30, A. J. HOPKINS).

A handbook for travellers in India, Burma and Ceylon, ninth edition. CLXVIII+664 p., 79 maps. London, 1913. (2, 402, SARTON).

* **Hansen, Axel.** JOHN WILLIAM SCHIBBYE JOHNSSON (1868-1929). 13, 320-24, 1 pl., 1930.

Harcourt, Marg. Béclard d', see **Harcourt, Raoul d'** (10, 524-26, ARCHIBALD).

Harcourt, Raoul et **Marg. Béclard d'.** La musique des Incas et ses survivances. 2 vols. Paris, 1925 (10, 524-26, ARCHIBALD).

Harding, M. C., see **Örsted, H. C.** (4, 516-17, SARTON).

Hartshorne, Charles, see **Peirce, Charles Sanders** (19, 220-29, QUINE).

Harvey-Gibson, Robert John (1860-1929). Outlines of the history of botany. x+274 p., London, 1919 (3, 297-99, C. SINGER).

* **Haskins, Charles H.** MICHAEL SCOT and FREDERICK II. 4, 250-75, 1922.

— Studies in the history of mediaeval science. XIV+411 p. Cambridge, 1924 (7, 121-24, SARTON).

* — Arabic science in western Europe. 7, 478-85, 1925.

— The Renaissance of the twelfth century. XI+437 p. Cambridge, 1927 (10, 62-65, SARTON).

* — The " Alchemy " ascribed to MICHAEL SCOT. 10, 350-59, 1928.

(—) Anniversary essays in mediaeval history. By students of CHARLES HOMER HASKINS. Presented on his completion of forty years of teaching. Edited by CHARLES H. TAYLOR and JOHN L. LA MONTE. X+417 p., port. Boston, 1929 (14, 433-36, SARTON).

— Studies in mediaeval culture. VIII+295 p. Oxford, 1929 (14, 433-36, SARTON).

Hearnshaw, F. J. C. Mediaeval contributions to modern civilisation. A series of lectures delivered at King's College, University of London. Edited by F. J. C. HEARNSHAW, with a preface by ERNEST BARKER. 268 p. London, 1921 (4, 352-54, THORNDIKE).

Heath, Sir **Thomas.** A history of Greek mathematics. 2 vol. Oxford, 1921 (4, 532-35, SARTON).

— The thirteen books of EUCLID's Elements. Translated from the text of HEIBERG. With introduction and commentary. 3 vols. New York, 1926 (10, 60-62, SARTON).

— A manuel of Greek mathematics. XVI+552 p., 2 fig. Oxford, 1931 (16, 450-51, SARTON).

Heawood, Edward. A history of geographical discovery in the seven-

teenth and eighteenth centuries. XII+475 p. Cambridge, 1912 (1, 518-19, SARTON).

— The " Columbian " world-map in the Bibliothèque Nationale, review in *Geographical Journal*, 65, 247-51, 1925 (8, 168-73, 2 pl., J. K. WRIGHT).

Heiberg, Johan Ludvig (1854-1928), see **Tannery, Paul** (1, 114-15 ; 1, 509-12, SARTON ; 4, 328-41, 342-45, SARTON ; 6, 431-35, SARTON ; 9, 127-30, 472-76, SARTON ; 10, 92-94, SARTON ; 14, 426-30, SARTON , 16, 155-57, SARTON ; 19, 515-16, SARTON).

Helbronner, Paul. Description géométrique détaillée des Alpes françaises. Paris, 1920-21 (6, 90-91, SARTON).

* **Hellman, C. Doris.** JEFFERSON's efforts towards the decimalization of the United States weights and measures. 16, 266-314, 2 pl,. 1931.

* — JOHN BIRD (1709-1776). Mathematical instrument-maker in the Strand. 17, 127-53, 2 pl., facs., 1932.

Hellmann, G. Aus der Blütezeit der Astrometeorologie. J. Stöfflers Prognose für des Jahr 1524. (*Beiträge zur Geschichte der Meteorologie*, Nr. 1, 5-102 ; Veröffentlich. des Kgl. Preuss. Meteorologischen Instituts, Nr. 273). Berlin, 1914 (4, 51, SARTON).

Helmholtz, Hermann von (1821-1894) ; **Dohrn, Max** ; **Schiff, Julius.** GOETHES naturwissenschaftliches Denken und Wirken. Drei Aufsätze, hrsg. von der Schriftleitung der Zeitschrift, Die Naturwissenschaften. 99 p., pl. Berlin, 1932 (20, 287-90, E. WOLF).

Henn, Arthur Wilbur, see **Dean, Bashford** (6, 456-59, SARTON).

Henry, Charles, see **Fermat** (1, 274, SARTON).

Henschel, A. W. E. Th. (1790-1856), see **Janus** (17, 283-84, SARTON).

Herdman, Sir **William Abbott.** Founders of oceanography and their work. XII+340 p., 29 pl. London, 1923 (6, 91-95, SARTON).

Hermannsson, Halldór. The cartography of Iceland (= Islandica,

21). 81 p., 27 pl. Ithaca, N. Y., 1931 (19, 237-40, STEFÁN EINARSSON).

Heron-Allen, Edward. Barnacles in nature and in myth. xv+180 p., 53 fig. Oxford, 1928 (12, 340, SARTON).

Hill, Cyril F., see **Disney, Alfred N.** (20, 495-97, KOFOID).

Hill, Micaiah J. M. The theory of proportion. xx+108 p. London, 1914. (3, 307, J.).

(Hippocrates). With an English translation by W. H. S. JONES. (Loeb classical library). Vol. 1, LXX+362 p. London, 1923 (6, 47-48, SARTON).

Hirschfeld, Magnus. Die Homosexualität des Mannes und des Weibes. Mit einem Namen-, Länder-, Orts- und Sachregister. XVII+1067 p. (Handbuch der gesamten Sexualwissenschaft in Einzeldarstellungen, Bd. III). Berlin, 1914 (2, 241-42, SARTON).

Histoire des sciences en France. Premier vol. Introduction générale, par EMILE PICARD. Mathématiques, mécanique, astronomie, physique et chimie (Histoire de la nation française 14). xx+619 p., 12 pl., ills. par B. MESTCHERSKY. Paris, 1924 (7, 514-16, SARTON).

Hitti, Philip K., see **Usâmah ibn Munqidh** (15, 341-42, W. THOMSON).

Hjelt, Edvard. Geschichte der organischen Chemie von ältester Zeit bis zur Gegenwart. XII+556 p. Braunschweig, 1916 (3, 440-43, SARTON).

Hobson, E. W. JOHN NAPIER and the invention of logarithms, 1614. 48 p. (A lecture). Cambridge, 1914 (3, 285, J.).

Hodgson, J. E. The history of aeronautics in Great Britain. From the earliest times to the latter half of the nineteenth century. xx+436 p., 150 ills. Oxford, 1924 (7, 521-28, SARTON).

Hölder, Otto. Die mathematische Methode. Logisch erkenntnistheoretische Untersuchungen im Gebiete der Mathematik, Mechanik und Physik. x+583 p., 235 fig. Berlin, 1924 (7, 155-56, WIELEITNER).

Hoernes, Moritz. Kultur der Urzeit, 3 vols. : Steinzeit ; Bronzezeit ; Eisenzeit. Leipzig (2, 232, J. E.).

Hôin, see **Shunjô.**

Holcomb, Richmond Cranston. A century with Norfolk naval hospital, 1830-1930. 543 p., 42 ills. Portsmouth, Va., 1930 (16, 474-75, KOFOID).

Holländer, Eugen. Die Karikatur und Satire in der Medizin. Medikokunst-historische Studie. Zweite Auflage. XVI+404 p. 11 pl., 251 fig. Stuttgart, 1921 (4, 370, SARTON).

— Wunder, Wundergeburt und Wundergestalt in Einblattdrucken des fünfzehnten bis achtzehnten Jahrhunderts. Kulturhistorische Studie. XVI+373 p., 202 ills. Stuttgart, 1921 (4, 566-67, SARTON).

Holmyard, Eric John. Kitāb al-'ilm al-muktasab fī zirā'at adh-dhahab. Book of the knowledge acquired concerning the cultivation of gold by ABU'L-QĀSIM MUḤAMMAD IBN AḤMAD AL-'IRĀQĪ. The Arabic text edited with a translation and a commentary. 62 p. (Engl.) 53 p. (Arab). Paris, 1923 (7, 124-28, SARTON).

* — A critical examination, of BERTHELOT's work upon Arabic chemistry. 6, 479-99, 1 pl., 1924.

* — MASLAMA AL-MAJRĪṬĪ and the Rutbatu' l-Ḥakīm. 6, 293-305, 1924.

* — ABU'L-QĀSIM AL-'IRĀQĪ. 8, 403-26, 1926.

— See **Avicenna** (11, 134-35, SARTON).

Honigmann, Ernst. Die sieben Klimata und die πόλεις ἐπίσημοι. Eine Untersuchung zur Geschichte der Geographie und Astrologie im Altertum und Mittelalter. 247 p., 4 fig. Heidelberg, 1929 (14, 270-76, 1 fig., SARTON).

Hoops, Johannes. Reallexikon der germanischen Altertumskunde. 4 vols. Strassburg, 1911-1919 (16, 176-78, WELBORN).

Hoover, Herbert Clark, see **Agricola, Georgius** (13, 113-16, SARTON).

Hoover, Lou Henry, see **Agricola, Georgius** (13, 113-16, SARTON).

* **Hopkins, Arthur John.** A modern theory of alchemy. 7, 58-76, 1925.

Hourticq, Louis. La vie des images. 246 p., 397 ills., 16 pl. Paris, 1927 (16, 181-84, SARTON).

Houssay, Frédéric (1860-1920). Force et cause. 210 p. (Bibl. de philos. scientif.). Paris, 1920, (4, 115-17, GUINET).

Hovelaque, Emile. Les peuples d'Extrême-Orient. Le Japon. 344 p. (Bibliothèque de philosophie scientifique). Paris, 1921 (4, 351-52, SARTON).

* **Hovgaard, William.** The arsenal in Piraeus and the ancient building rules. 8, 12-20, 2 pl., 1926.

Howard, Leland Ossian. A history of applied entomology (somewhat anecdotal). VIII+564 p., 51 pl. (Smithsonian miscellaneous collections, 84). Washington, 1930 (16, 169-73, SARTON).

Howarth, Helen E., see **Shapley, Harlow** (13, 130-34, SARTON).

Hubert, René. AUGUSTE COMTE. Choix de textes et étude de système philosophique. 224 p., 9 ills., port. (Les grands philosophes français et étrangers). Paris, 1913 (1, 276, SARTON).

(**Ibn Hudhail, 'Alī ibn 'Abd al-Raḥmān al-Andalusī,** fl. c. 1356). La parure des cavaliers et l'insigne des preux. Edité d'après le MS. de M. NEHLIL, revu et corrigé sur l'exemplaire de la bibliothèque de l'Escurial, par LOUIS MERCIER. Traduction française précédée d'une étude sur les sources des hippiatres arabes et accompagnée d'appendices critiques sur l'histoire du pur-sang, de l'équitation et des sports hippiques arabes, en Maghreb et en Orient. Par LOUIS MERCIER. Paris, 1922-24 (8, 346-49, facs., SARTON).

Hübotter, Franz. 3000 Jahre Medizin. Ein geschichtlicher Grundriss, umfassend die Zeit von Homer bis zur Gegenwart unter besonderer Berücksichtigung der Zusammenhänge zwischen Medizin und Philosophie. 535 p., ills. Berlin, 1920 (150 autographic copies) (4, 369-70, SARTON).

— Die chinesische Medizin zu Beginn des XX. Jahrhunderts und ihr historischer Entwicklungsgang. 356 p. Leipzig, 1929 (14, 255-63, 2 fig., SARTON).

(**Ḥunain ibn Isḥāq**). The book of the ten treatises on the eye ascribed to ḤUNAIN IBN ISḤĀQ (809-877 A.D.). The earliest existing systematic text-book of ophtalmology. The Arabic text edited from the only two known manuscripts, with an English translation and glossary by MAX MEYERHOF. LIII+227 p., Arabic text, 230 p. Cairo, 1928 (13, 106-09, SARTON).

* **Hurd-Mead, Kate Campbell.** Trotula. 14, 349-67, 1930.

Hurry, Jamieson B. (1857-1930). IMHOTEP, the vizier and physician of King ZOSER and afterwards the Egyptian god of medicine. 2nd edition. XVI+211 p., 26 illus. Oxford, 1928 (13, 373-75, SARTON).

Ḥusain, M. Hidāyat, see **Stapleton, H. E.** (11, 129-34, SARTON).

Husemann, Theodor, see **Pharmacopoeia Augustana** (10, 69-71, 2 pl., SARTON).

Huygens, Christiaan (1629-1695). Treatise on light, in which are explained the causes of that which occurs in reflexion, and in refractions and particularly in the strange refraction of Iceland crystal, rendered into English by SILVANUS P. THOMPSON. XII+130 p. London, 1912 (1, 273, SARTON).

— Œuvres complètes de CHRISTIAAN HUYGENS, publiées par la Société hollandaise des sciences, T. 1-14. La Haye, 1888-1920 (5, 154-56, SARTON).

Iltis, Hugo. GREGOR JOHANN MENDEL. Leben, Werk und Wirkung. Herausgegeben mit Unterstützung des Ministeriums für Schulwesen und Volkskultur in Prag. VIII+426 p., 59 port., 12 pl. Berlin, SPRINGER, 1924 (7, 501-07, E. BLOCH).

(**Institut international de sociologie**), Le progrès. Discours, mémoires et observations de (divers auteurs), 14, contenant les travaux du VIIIe congrès, tenu à Rome, en octobre 1912. 527 p. Paris, 1913 (2, 245, SARTON).

* **Irsay, Stephen d'.** Notes to the origin of the expression : "atra mors." 8, 328-32, 1926.

Ishizuka, Ryugaku, see **Shunjō Hōin** (9, 365-67, SARTON).

Jackson, Benjamin Dayton (1846-1927). LINNAEUS (afterwards CARL VON LINNÉ). The story of his life, adapted from the Swedish of THEODOR MAGNUS FRIES, and brought down to the present time in the light of recent research. XVI+416 p., ills. London, 1923. (6, 420-23, SARTON).

Jaeger, F. M. Historische Studien. Bijdragen tot de kennis van de geschiedenis der natuurwetenschappen in de Nederlanden gedurende de XVIe en XVIIe eeuw. 276 p., 45 fig., port. Groningen, 1919 (4, 50-51, SARTON).

— Elementen en Atomen eens en thans. Schetsen uit de ontwikkelingsgeschiedenis der elementenleer en atomistiek. Tweede verbeterde druk. VIII+312 p., 24 fig., 50 port., 1 map. Groningen, 1920 (4, 83, SARTON).

(al-Jāḥiẓ). Three essays of ABŪ 'OTHMAN 'AMR IBN BAḤR AL-JĀḤIẒ (d. 869). Edited from three manuscripts, with introductions by JOSHUA FINKEL. 78 p. (in Arabic). Cairo, 1344 (1926) (10, 494-95, SARTON).

Janus. Zeitschrift für Geschichte und Literatur der Medizin im Verein mit L. CHOULANT, H. HAESER, J. F. C. HECKER, C. F. HEUSINGER, F. JAHN, J. C. MARX, J. ROSENBAUM u. A. hrsg. von A. W. E. TH. HENSCHEL, 3 vols. Breslau, 1846-48 (17, 283-84, SARTON).

— Central-Magazin für Geschichte und Literärgeschichte der Medizin, ärztliche Biographik, Epidemiographik, medizinische Geographie und Statistik. Hrsg. v. H. BRETSCHNEIDER, A. W. E. TH. HENSCHEL, C. FR. HEUSINGER, und J. G. THIERFELDER. 2 vols. Gotha, 1851-52 (17, 283-84, SARTON).

(Japan). Scientific Japan, past and present. Prepared in connection with the third Pan-Pacific Science Congress. Tokyo, 1926. VII+359 p., 47 pl., 3 maps. Tokyo, 1926 (10, 83-88, SARTON).

(Japan civilization society). Science in Japan (in Japanese). XXI+415 p. Tokyo, 1917 (4, 72-74, Y. MIKAMI).

Jeanselme, Edouard. Histoire de la syphilis : son origine, son expansion. (Extraite du Traité de la syphilis, I). 432 p. Paris, 1931 (19, 249-52, LEAKE).

* **(Jenner, Edward,** 1749-1823). An unpublished letter of EDWARD JENNER (1809). 13, 16-17, 1929.

Jensen, Hans. Geschichte der Schrift. VIII+231 p., 303 fig. Hannover, 1925 (8, 382-85, RUSKA).

Jéquier, Gustave. Histoire de la civilisation égyptienne, des origines à la conquête d'Alexandrie. 330 p., 265 fig. Paris, 1913 (1, 503-04, SARTON).

— Manuel d'archéologie égyptienne. I. Les éléments de l'architecture. XVI+401 p. Paris, 1924 (7, 147-48, J. LEFRANCQ).

Johnson, Obed Simon. A study of Chinese alchemy. XII+156 p. Shanghai, 1928 (12, 330-32, LAUFER).

* **Johnsson, J. W. S.** (1868-1929). HENRIK HARPESTRAENG. A Danish Salernitan. 4, 13-16, 1921.

* — La peste de 1763 en Dalmatie. G. C. P. CICAVO : Relazione della peste insorta l'anno 1763 nei Borghi di Spalato con il progetto dell' autore per diffendere la Dalmazie dai successivi attachi del morbo contagioso. En collaboration avec A. KREKICH. Ms. de la Bibliothèque royale de Copenhague. 11, 343-63, 1 pl., 1928 ; 12, 47-87, 255-86, 1929.

Johnston, George Alexander. Selections from the Scottish philosophy of common sense. Edited by G. A. JOHNSTON. VIII+267 p. (No. 2 of The Open Court Classics of Science and Philosophy). Chicago, 1915 (3, 289, J.).

Jordan, David Starr (1851-1931). The days of a man. Being memories of a naturalist, teacher and minor prophet of democracy. 2 vol. ills. Yonkers-on-Hudson, N. Y., 1922 (7, 138-41, SARTON).

Jouguet, Emile. Lectures de mécanique. La mécanique enseignée par les auteurs originaux. Nouveau tirage avec notes et additions. Première partie : « La naissance de la mécanique ; deuxième partie :

L'organisation de la mécanique ». Paris, 1924 (7, 156-58, SARTON).

* **Jourdain, Laura.** Some reminiscences on the moral personality of PHILIP E. B. JOURDAIN. 5, 129-33, 1 pl., 1923.

Jourdain, Philip Edward B. (1879-1919). " The nature and validity of the principle of least action." *Monist*, 23, 277-93, 1913 (1, 278, JOURDAIN).

— The principle of least action. 83 p. Chicago, 1913 (1, 527, JOURDAIN).

* — The origin of CAUCHY's conceptions of a definite integral and of the continuity of a function. 1, 661-703, 1914.

— The principles of mechanics with NEWTON, from 1666 to 1679. *Monist*, 24, 188-234, 1914 (2, 209, JOURDAIN).

— NEWTON's hypotheses of ether and of gravitation from 1672-1726. *Monist*, 25, 79-106, 234-54, 418-40, 1915 (3, 286-88, JURDAIN).

— The flying arrow : an anachronism. *Mind*, 25, 42-55, Aberdeen, 1916 (3, 277-78, JOURDAIN).

— See **Morgan, Augustus de** (3, 283-85, JOURDAIN).

Jouveau-Dubreuil, G. Archéologie du Sud de l'Inde. 2 vols. Architecture ; Iconographie. (Annales du Musée Guimet, Bibl. d'Etudes, XXVI et XVII). Paris, 1914 (3, 66-67, MASSON-OURSEL).

Junge, Gustav ; Thomson, William. The commentary of PAPPUS on book X of EUCLID's Elements. Arabic text and translation by WILLIAM THOMSON with introductory remarks, notes, and a glossary of technical terms. 294 p. (Harvard Semitic series, 8). Cambridge, Mass., 1930 (16, 132-36, GANDZ).

Kaiser, Emil. Aus der Vorzeit. Blicke in die Entwickelung und Urgeschichte der Menschheit. 208 p., 73 fig. Leipzig, 1912 (2, 233, J. E.).

Le grant Kalendrier et compost des Bergiers avecq leur astrologie et plusieurs aultres choses. 110 p. Paris, 1925 (8, 354-55, SARTON).

Kamal, Hasan. Ancient Egyptian medicine (aṭ-ṭibb al-miṣrī al-qadīm). In Arabic. 297 p. Cairo, 1922 (8, 198-200, MEYERHOF).

Kammerer, A. Essai sur l'histoire antique d'Abyssinie. Le royaume d'Aksum et ses voisins d'Arabie et de Meroe. 198 p., 45 pl., 4 maps. Paris, 1926 (9, 449-50, SARTON).

— Pétra et la Nabatène. L'Arabie pétrée et les Arabes du nord dans leurs rapports avec la Syrie et la Palestine jusqu'à l'Islam. 2 vols. Paris, 1929 (17, 265-67, SARTON).

Kanetsune, S. Music in Japan (in Japanese). Tokyo, 1912 (4, 77-81, Y. MIKAMI).

Kapadia, S. A., see **Cranmer-Byng, L.** (1, 513-16, MASSON-OURSEL).

Karpinski, Louis Charles. ROBERT OF CHESTER'S Latin translation of the algebra of AL-KHOWARIZMI. With an introduction, critical notes and an English version. 164 p. (University of Michigan studies, humanistic series, XI). New York, 1915 (4, 504-05, RUSKA).

* — Two twelfth century algorisms. 3, 396-413, 1921.

* — Michigan mathematical papyrus, no. 621. 5, 20-25, 1 pl., 1923.

— The history of arithmetic. XII+200 p. ills. New York, 1925 (8, 231-32, CAJORI).

Katalog der Bibliothek des Reichspatentamts. Stand vom 1 Oktober 1923. 3 Bde. Berlin, 1923 (6, 131, Graf v. KLINCKOWSTROEM).

Kauffmann, Hugo. Die Valenzlehre, ein Lehr- und Handbuch für Chemiker und Physiker. 558 p. Stuttgart, 1911 (1, 280, E. BLOCH).

Kaye, George Rusby (1866-1929). The astronomical observatories of Jai Singh (Archaeological survey of India. New Imperial series, 40). VIII+153 p., 26 pl. Calcutta. 1918 (2, 421-23, SARTON).

* — Indian mathematics. 2, 326-56, 1919.

— The Bakhshālī manuscript. A study in mediaeval mathematics. VI+156 p., 48 pl. (Archaeological survey of India, new imperial series, 43). Calcutta, 1927 (12, 157-61, SARTON).

— See **Rāmānujācarya, N.** (1, 516, MASSON-OURSEL).

* **Keen, William William.** The beginnings of clinical teaching in the United States. 9, 363, 1927.

Keith, Arthur Berriedale. Indian logic and atomism. An exposition of the Nyāya and Vaiçeṣika systems. 291 p. Oxford, 1921 (4, 535-36, MASSON-OURSEL).

— See **Macdonell, A. A.** (3, 84-87, MASSON-OURSEL).

Kennedy, J. M., see **Bhartrihari** (1, 512-13, MASSON-OURSEL).

Kent, Roland Grubb, see **Newbold, William Romaine** (11, 141-45, SARTON).

(**Kepler, Johann**, 1571-1630). Die Zusammenklänge der Welten... hrsg. u. übersetzt von OTTO J. BRYK. (Klassiker der Naturwissenschaft u. Technik). LII+368 p. Jena, 1918 (4, 512-14, SARTON).

— Neue Astronomie. Übersetzt und eingeleitet von MAX CASPAR. 416 p., XIII+68 fig. München, 1929 (13, 118, SARTON).

— A tercentenary commemoration of his life and work. A series of papers prepared under the auspices of the History of science society, in collaboration with The American association for the advancement of science (Sections A, D, and L). 133+XII p. Baltimore, 1931 (18, 197-200, BOBROVNIKOFF).

(**Ketham Alemanus, Joannes de**). Fasciculus di medicinae, 1491. (Monumenta medica, 1) Milan, 1924. Fasciculo medicina Monumenta medica, 2, Venice 1493. 2 vol. Florence, 1925 (6, 547-49; 8, 350, SARTON).

Keyser, Cassius Jackson. Humanism and science. VII+243 p. New York, 1931 (16, 451-55, H. T. DAVIS).

Keyserling, Graf **Hermann.** Das Reisetagebuch eines Philosophen. 5th ed. 2 vol. Darmstadt, 1921 (5, 191-93, RUSKA).

(**al-Khowarizmi**), see **Karpinski, L. C.** (4, 504-05, RUSKA); **Suter, H.** (4, 502-03, RUSKA).

Kittredge, George Lyman. Dr. ROBERT CHILD, The Remonstrant. Transactions of the Colonial Society of Massachusetts for 1919, 21, 1-146, 1920 (9, 440-45, T. L. DAVIS).

— Witchcraft in old and New England. 641 p. Cambridge, 1929 (13, 138-41, THORNDIKE).

Klebs, Arnold C.; Sudhoff, Karl. Die ersten gedruckten Pestschriften. A. C. KLEBS. Geschichtliche und bibliographische Untersuchungen; K. SUDHOFF, Der Ulmer Stadtarzt und Schriftsteller HEINRICH STEINHÖWEL. 264 p., fig., 24 pl., facs. München, 1926 (9, 430-33, SARTON).

Klein, Felix (1849-1925). Vorlesungen über die Entwicklung der Mathematik im 19. Jahrhundert. Tl. I. u. II. Berlin, 1926-27 (9, 447-49; 10, 505, WIELEITNER).

Klibansky, R., see **Cusa, Nicolaus de** (20, 457-74, KURLAND).

Klinckowstroem, Graf **Carl v.**, see **Gulat-Wellenburg, W. von** (8, 728-31, ROBACK).

Knobel, Edward Ball, see **Ulūgh Beg** (2, 413-15, SARTON); **Ptolemy** (2, 401, SARTON).

Kohlbrugge, Jacob H. F. Historisch-kritische Studien über GOETHE als Naturforscher. Würzburg, 1913 (2, 213-16, RÁDL).

* **Kokomoor, F. W.** The distinctive features of seventeenth century geometry. 10, 367-415, 1928.

* — The teaching of elementary geometry in the seventeenth century. 10, 21-32; 11, 85-110, 1 fig., 1928.

Koren, John (ed.). The history of statistics. Their development and progress in many countries. Memoirs to commemorate the seventy-fifth anniversary of the American Statistical Association. XII+773 p., New York, 1918 (4, 387-89, SARTON).

* **Kotsovsky, D.** Das Alter in der Geschichte der Wissenschaft. 20, 220-45, 1933.

* **Kraus, Paul.** Studien zu JĀBIR IBN ḤAYYĀN. 15, 7-30, 1931.

* **Kremers, Edward.** The Guild of physicians, apothecaries and merchants in Florence at the beginning of the 14th century and at the close of the 15th century. (*Query* no. 34). 20, 442, 1934.

* **Krishnaswami, G. V.** Reform of the Indian calendars. 14, 403-10, 1930.

Kubitschek, Wilhelm. Grundriss der Antiken Zeitrechnung. IX+232 p., ills. München, 1928 (13, 121-22, BÉVENOT).

Kühner, Friedrich. LAMARCK. Die Lehre vom Leben. Seine Persönlichkeit und das Wesentliche aus seinen Schriften kritisch dargestellt. VIII+260 p. (Klassiker der Naturwissenschaft und Technik, 12) Jena, 1913 (2, 216-17, GEORGES-BERTHIER).

Kugler, Franz Xavers (S. J.) (1862-1929). Sibyllinischer Sternkampf und Phaëton, in naturgeschichtlicher Beleuchtung. 56 p. (Zeitgemässe Schriften, Nr. 17). Aschendorff, 1927 (12, 156-57, BÉVENOT).

Lacroix, Alfred. DÉODAT DOLOMIEU, membre de l'Institut National (1750-1801). Sa correspondance. Sa vie aventureuse. Sa captivité. Ses œuvres. 2 vol. Paris, 1922 (5, 158-59, GUINET).

La Mettrie, Julien Offray de (1709-1751). Man a machine (French-English). Including FREDERICK THE GREAT's Eulogy on LA METTRIE and extracts from LA METTRIE's The natural history of the soul. Philosophical and historical notes by GERTRUDE CARMAN BUSSEY. 216 p. Chicago, 1912 (1, 274, JOURDAIN).

La Monte, John L., see **Haskins, Charles Homer** (14, 413-16, SARTON).

Lanessan, Jean Marie Antoine (J. L.) (1843-1919). Transformisme et créationnisme. Contribution à l'histoire du transformisme depuis l'antiquité jusqu'à nos jours. 352 p. Paris, 1914, (2, 229-30, GUINET.)

Larsen, Henning. An old Icelandic medical miscellany. Det Norske Videnskaps-Akademi i Oslo. 328 p. Oslo, 1931 (17, 436-3,8 WELBORN).

Lasswitz, Kurd (1848-1910). Geschichte der Atomistik vom Mittelalter bis NEWTON. 2 Bde. Leipzig, 1926 (9, 465-67, DINGLER).

* **Lattin, Harriet Pratt.** The origin of our present system of notation according to the theories of NICHOLAS BUBNOV. 19, 181-94, 1933.

Laufer, Berthold. Sino-Iranica. Chinese contributions to the history of civilization in ancient Iran. With special reference to the history of cultivated plants and products. (Field Museum of Natural History, anthropological series, 15, p. 185-630, Chicago, 1919 (3, 299-302, SARTON).

— Insect-musicians and cricket champions of China. 27 p., 12 pl. (Anthropology leaflet, 22). Chicago, 1927 (10, 510-11, SARTON).

Laurent, Fernand (FERNAND-LAURENT, CAMILLE JEAN). JEAN SYLVAIN BAILLY, premier maire de Paris. VIII+460 p., ills. Paris, 1927 (11, 393-95, GUINET).

Laurent, Gaston. Les grands écrivains scientifiques, de COPERNIC à BERTHELOT. Extraits, introduction, biographies et notes, 5e édition. XI+384 p. Paris, 1913 (2, 424, E. TURRIÈRE).

Law, Narendra Nath. Aspects of ancient Indian polity. XX+228 p. Oxford, 1921 (5, 164-65, MASSON-OURSEL).

Lawrence, Edward. Spiritualism among civilised and savage races. A study in anthropology. XIII+112 p., 6 ills. London, 1921 (4, 567-68, SARTON).

* **Leake, Chauncy D.** VALERIUS CORDUS and the discovery of ether. 7, 14-24, 4 pl., 1925.

* **Le Bondidier, L.** Histoire de l'exploration des Pyrénées. 8, 492-96, 1926.

Lecat, Maurice; **Lecat-Pierlot, Mme. M.** Bibliographie de la relativité. Suivie d'un appendice sur les déterminants à plus de deux dimensions ; le calcul des variations ; les séries trigonométriques et l'azéotropisme. XII+340 p. Bruxelles, 1924 (6, 567-68, SARTON).

Lecat-Pierlot, Mme. M., see **Lecat, Maurice** (6, 567-68, SARTON).

Leclerc du Sablon, M. L'unité de la science. 284 p. (Nouvelle collection scientifique). Paris, 1919. (4, 115, GUINET).

Leersum, E. C. Van, see **Scellinck, Thomas** (12, 152-53, SARTON).

Legrand, Louis. La sélection du plasma spécifique. Esquisse d'une théorie cytomécanique et cytochimique de la vie. 187 p., 8 fig. Paris, 1916 (3, 88, GUINET).

— L'emboîtement des plasmas. Aperçu d'une théorie mécanique de l'hérédité. *Revue générale des sciences*, 28, 368-76, 396-403. Paris, 1917 (3, 88, GUINET).

— Les caractères biochimiques de l'espèce. *Revue générale des sciences*, 29, 333-40, Paris, 1918 (3, 89, GUINET).

Legros, Georges Victor. La vie de J. H. FABRE, naturaliste, par un disciple. Préface de J.-H. FABRE. XII+297 p., port. Paris, (1913) (1, 526, SARTON).

— La vie de J.-H. FABRE naturaliste, suivie du répertoire général analytique des Souvenirs entomologiques. XVI+440 p., 16 pl. Paris, 1924 (7, 143, GUINET).

Lehmann, Alfred (1858-1921). Aberglaube und Zauberei, von den ältesten Zeiten bis in die Gegenwart. Dritte deutsche Auflage nach der zweiten dänischen Auflage übersetzt und nach dem Tode des Verfassers bis in die Neuzeit ergänzt von D. PETERSEN. XVI+752 p., 4 pl., 72 fig. Stuttgart, 1925 (9, 142, v. KLINCKOWSTROEM).

Lenoir, Raymond. Les historiens de l'esprit humain. VII+173 p. Paris, 1926 (10, 501-02, METZGER).

Lenzen, Victor Fritz. The nature of physical theory. (A study in the theory of knowledge). XII+301 p. New York, 1931 (20, 488-91, H. T. DAVIS).

* — ARCHIMEDES' theory of the lever. 17, 288-89, 1932.

Léon, Xavier. FICHTE et son temps. I. Etablissement et prédication de la doctrine de liberté. La vie de FICHTE jusqu'au départ d'Iéna (1762-1799). XVI+652 p., port. Paris, 1922 (4, 514-15, SARTON).

Leonardo da Vinci, see **Vinci, Leonardo.**

Lepsius, Bernhard. Deutschlands chemische Industrie 1888-1913. 108 p. Berlin, 1914 (4, 335, E. BLOCH).

* **Leroux, Lucien.** NICOLAS LÉMERY. 7, 430-32, 1925.

Leroy, Olivier. La raison primitive. Essai de réfutation du prélogisme. 316 p., 8 fig., 15 pl. Paris, 1927 (12, 343-47, METZGER).

Lespieau, Robert. La molécule chimique. 286 p. Paris, 1920 (3, 426-28, GUINET).

Letts, Edmund Albert. Some fundamental problems in chemistry old and new. XIII+235 p., 44 fig. London, 1914 (3, 443, SARTON).

Lévy, Isidore. Recherches sur les sources de la légende de PYTHAGORE. 152 p. (Biblioth. de l'Ecole des hautes études sc. religieuses, 42). Paris, 1926 (10, 509-10, GUINET).

Lévy-Bruhl, Lucien. La mentalité primitive. 527 p. Paris, 1922 (5, 467-68, LENOIR).

— L'âme primitive. II+451 p. (Bibliothèque de philosophie contemporaine). Paris, 1927 (9, 482-86, METZGER).

— Les fonctions mentales chez les sociétés inférieures 8e édition. III+370 p. (Bibliothèque de philosophie contemporaine). Paris, 1929 (12, 343-47, METZGER).

— La mentalité primitive. Une Herbert Spencer lecture. 27 p. Oxford, (17, 450-53, METZGER).

— Le surnaturel et la nature dans la mentalité primitive. XL+526 p. (Bibliothèque de philosophie contemporaine). Paris, 1931 (17, 450-53, METZGER).

Lewin, Louis. Die Gifte in der Weltgeschichte. Toxikologische, allgemeinverständliche Untersuchungen der historischen Quellen. XVI+596 p. Berlin, 1920 (4, 371-73, SARTON).

Lexa, František. La magie dans l'Egypte antique de l'Ancien Empire jusqu'à l'époque Copte. 3 vols. Paris, 1925 (9, 450-52, THORNDIKE).

Libby, Walter. An introduction to the history of science. XI+288 p., 8 pl. Boston, 1917 (5, 478-79, SARTON).

— The history of medicine in its salient features. XI+427 p., 9 pl. Boston, 1922 (5, 478-79, SARTON).

Liddell, Henry George (1811-1898); **Scott, Robert.** A Greek-English lexicon. A new edition revised and augmented throughout by HENRY STUART JONES, with the assistance of RODERICK MCKENZIE, and with the coöperation of many scholars. Part I: A — *Ἀποβαίνω*. New York, 1925 (8, 200-02, SARTON).

Lien-teh, Wu, see **Wong, K. Chimin** (20, 480-82, SARTON).

* **Lietzmann, Walther.** Geometrie und Prähistorie. 20, 436-39, 1934.

Lippmann, Edmund O. von. Entstehung und Ausbreitung der Alchemie. Mit einem Anhange: Zur älteren Geschichte der Metalle. Ein Beitrag zur Kulturgeschichte. XVI+742 p. Berlin, 1919. (3, 302-05, SARTON).

— Zeittafeln zur Geschichte der organischen Chemie. Ein Versuch. IX+87 p. Berlin, 1921 (4, 548, SARTON).

— Beiträge zur Geschichte der Naturwissenschaften und Technik. VIII+314 p. Berlin, 1923 (6, 116-19, SARTON).

— Geschichte der Rübe (Beta) als Kulturpflanze von den ältesten Zeiten an bis zum Erscheinen von ACHARD's Hauptwerk (1809). Festschrift zum 75. jährigen Bestande des Vereins der deutschen Zuckerindustrie. VIII+184 p., fig. Berlin, 1925 (8, 379-80, RUSKA).

* — Quellen zur Geschichte der Chemie und Alchemie in Italien. 8, 465-76, 1926.

— Geschichte des Zuckers seit den ältesten Zeiten bis zum Beginn der Rübenzucker-Fabrikation. Ein Beitrag zur Kulturgeschichte. Zweite Auflage. IX+824 p., frontispiece, map. Berlin, 1929 (13, 393-95, SARTON).

— Entstehung und Ausbreitung der Alchemie. Zweiter Bd. Ein Lese-

und Nachschlage-Buch. VII+257 p. Berlin, 1931 (16, 462-63, SARTON).

Little, Andrew George. Studies in English Franciscan history, being the Ford lectures delivered in the University of Oxford in 1916. X+248 p. Manchester, 1917 (3, 280-82, C. SINGER).

— See **Bacon, Roger** (13, 110-11, THORNDIKE).

Livingstone, Richard Winn (ed.). The legacy of Greece. Twelve essays. XII+424 p., 36 ills. Oxford, 1921 (5, 162-63, SARTON).

Locy, William A. (1857-1924). The growth of biology. XIV+481 p. New York, 1925 (8, 513-14, D'IRSAY).

Loeb, Jacques (1859-1924). The mechanistic conception of life. Biological essays. 230. Chicago, 1912 (2, 232, SARTON).

Löw, Immanuel. Die Flora der Juden. Bde. II, III, I. (Veröffentlichungen der Alexander Kohut Memorial Foundation, 2, 3, 4). Wien, 1924-28 (6, 428-29; 8, 210-11; 15, 181-82 RUSKA).

Loewenstein, Georg, see **Bloch, Iwan** (8, 521-25, D'IRSAY).

Lones, Thomas East. ARISTOTLE's researches in natural science. VIII+274 p., 10 fig. London, 1912 (1, 505-09, A. ARBER).

* **Lorey, Wilhelm.** GUSTAV ENESTRÖM (1852-1923). In memoriam. 8, 313-20, 1 pl., 1926.

* **Loria, Gino.** Le glorie matematiche della Granbretagna. 1, 637-54, 1914.

— Le scienze esatte nell' antica Grecia, seconda ediz. XXIV+974 p. Milan, 1914 (1, 714-16, MIELI).

— Storia della geometria descrittiva dalle origini sino ai giorni nostri. XXIV+584 p. Milan, 1921 (5, 181-182, KARPINSKI).

* — BELDOMANDI ou BELDAMANDI? 12, 323, 1929.

— Il passato e il presente delle principali teorie geometriche. Storie

e bibliografia. Quarta edizione. XXIII+467 p. Padua, 1931 (19, 229-31, ARCHIBALD).

— Storia delle matematiche. Volume 2, I secoli XVI e XVII. 595 p. Turin, 1931 (19, 231, ARCHIBALD).

* — JOHANN TOBIAS MAYER comme géomètre. (*Query* no. 31). 20, 441, 1934.

* — Les miroirs ardents d'ARCHIMÈDE. (*Query* no. 32). 20, 441, 1934.

— See **Torricelli, E.** (5, 151-54, SARTON).

Lovejoy, Arthur O. The revolt against dualism. XII+325 p. Chicago, 1930 (15, 190-93, H. T. DAVIS).

* **Luckey, P.** Was ist ägyptische Geometrie? 20, 15-52, 5 fig., 1933.

(**Lucretius**, d. c. 55 B.C.). LUCRÈCE. De la Nature. Texte établi et traduit par ALFRED ERNOUT. 2 vol. (Collection des Universités de France publiée sous le patronage de l'Association Guillaume Budé). Paris, 1920 (4, 47-48, SARTON).

MacCallum, William George. WILLIAM STEWART HALSTED (1852-1922), surgeon. XVIII+241 p., 15 pl. Baltimore, 1930 (16, 146-48, KOFOID).

* **Macdonald, Duncan Black.** Continuous re-creation and atomic time in Muslim scholastic theology. 9, 326-44, 1927.

Macdonell, Arthur Anthony; Keith, Arthur Berriedale. Vedic index of names and subjects: 2 vols. (Indian texts series). London, 1912 (3, 84-87, MASSON-OURSEL).

Macfarlane, Alexander (1815-1913). Lectures on ten British physicists of the nineteenth century (Mathematical monographs, no. 20, 144 p.). New York, 1919 (3, 291, SARTON).

Mach, Ernst (1838-1916). Die Prinzipien der physikalischen Optik. Historisch und erkenntnispsychologisch entwickelt. X+444 p. 279 fig., 10 port. Leipzig, 1921 (4, 560-62, E. BLOCH).

Mackaye, James. The dynamic universe. x+308 p. New York, 1931 (16, 158-61, H. T. DAVIS).

Mackenzie, Sir James. L'avenir de la médecine, trad. de l'anglais par F. FRANCON. VIII+272 p., 28 fig. Paris, 1922 (5, 189-90, GUINET).

* **MacKinney, Loren C.** Bishop FULBERT : teacher, administrator, humanist. 14, 285-300, 1930.

MacPike, Eugene Fairfield, see **Halley** (20, 470-72, BOBROVNIKOFF).

Maeterlinck, Maurice. Das grosse Rätsel. Übersetzt von LULU VON STRAUSS u. TORNEY. Jena, 1924 (7, 167-68, RUSKA).

Mager, Henri. Une science nouvelle : La science des vibrations atomiques. XVIII+151 p., 50 fig. Paris, 1923 (6, 565-66, GUINET).

Magrini, Silvio. I fenomeni magnetici nelle varie teorie elettromagnetiche. Note storico-critiche. 166 p. Bologna, 1912 (2, 427, MIELI).

* **Mahnke, Dietrich.** LEIBNIZ als Begründer der symbolischen Mathematik, 9, 279-93, 1927.

Maire, Albert. Bibliographie générale des œuvres de BLAISE PASCAL. T. 1, PASCAL savant ; T. 2, PASCAL pamphlétaire. Paris, 1925-26 (9, 370-72, GUINET).

Major, Ralph Hermon. Classic descriptions of diseases. With biographical sketches of the authors. XXVII+630 p., 127 ills. Springfield, Ill., 1932 (19, 518-20, VIETS).

Mâle, Emile. L'art religieux du XIIe siècle en France. Etude sur les origines de l'iconographie du moyen âge. IV+460 p., 253 ills. Paris, 1922 (6, 52-56, SARTON).

Malinowski, Bronislaw. The sexual life of savages in northwestern Melanesia. An ethnographic account of courtship, marriage and family life among the natives of the Trobriand Islands, British New Guinea. With a preface by HAVELOCK ELLIS. 2 vols. New York, 1929 (13, 395-97, SARTON).

Mandeville, D. C., see **Avicenna** (11, 134-35, SARTON).

Manning, Frederic. The life of Sir WILLIAM WHITE, K.C.B., F.R.S., etc. With an introduction by Lord GEORGE HAMILTON. XVII+502 p., 1 port., ills. New York, 1923 (6, 423, SARTON).

Manning, Henry Parker, see **Chace, Arnold Buffum** (14, 251-55, SARTON).

Abū-Manṣūr 'abd-al-Ḳāhir ibn-Ṭāhir al Baghdādī (d. 1037). Moslem schisms and sects (al-Farḳ Bain al-Firaḳ) being the history of the various philosophic systems developed in Islam. Part 1, translated from the Arabic by KATE CHAMBERS SEELYE. VIII+224 p. (Columbia University Oriental studies, XV). New York, 1920 (4, 63-64, SARTON).

* **Marcham, Frederick George.** Letters of an English physician in the early seventeenth century. 16, 55-81, 1931.

Margerie, Emmanuel de. Le Jura. Première partie. Bibliographie sommaire du Jura français et suisse. Orographie tectonique et morphologie (Ministère des travaux publics. Mémoires pour servir à l'explication de la carte géologique détaillée de la France). XII+642 p., 183 fig. Paris, 1922 (5, 468-69, SARTON).

Marguet, F. Histoire générale de la navigation du XVe au XXe siècle. 301 p., ill. Paris, 1931 (19, 235-37, L. SAPIN).

Markham, Sir **Clements R.** (1830-1916). The lands of silence. A history of Arctic and Antarctic exploration. XII+539 p., maps, illus. Cambridge, 1921 (4, 365-67, SARTON).

Marquardt, Martha. PAUL EHRLICH als Mensch und Arbeiter. Erinnerungen aus dreizehn Jahren seines Lebens (1902-1915). Mit einer Einführung von RICHARD KOCH. 112 p., 4 port., 2 facs. Stuttgart, 1924 (8, 189-91, E. BLOCH).

Marshall, Frederick Henry. Discovery in Greek lands. A sketch of the principal excavations and discoveries of the last fifty years. XII+127 p., 38 fig. Cambridge, 1920 (4, 59, SARTON).

Martin, Thomas, see **Faraday** (20, 472-74. SARTON).

Martonne, Emmanuel de. Geography in France (American Geographical Society Research series no. 4a). W. L. C. JOERG, editor. VII+70 p. New York, 1924 (7, 153-55, J. K. WRIGHT).

Marvin, Francis Sydney. The century of hope. A sketch of Western progress from 1815 to the Great War. VII+352 p. Oxford, 1919 (2, 425-27, SARTON).

— Science and civilization. Essays arranged and edited. (The unity series, 6). New York, 1923 (6, 119-21, SARTON).

* — FREDERIC HARRISON (1831-1923). 6, 387-90, 1924.

Marzell, Heinrich. Unsere Heilpflanzen, ihre Geschichte und ihre Stellung in der Volkskunde. Ethnobotanische Streifzüge. XXVIII+240 p., 38 illus. Freiburg im Breisgau, 1922 (5, 456-57, LAUFER).

Masaryk, Tomáš Garrigue. Zur russischen Geschichts- und Religions-philosophie. Soziologische Skizzen. 2 Bde. Jena, 1913 (2, 238-39, SARTON).

Mason, William Albert. A history of the art of writing. 502 p. New York, 1920 (4, 367-68, LIBBY).

* **Masson-Oursel, Paul.** Bibliographie sommaire de l'Indianisme. 3, 171-218, 1920.

— La philosophie comparée. 203 p. (Bibliothèque de philosophie contemporaine). Paris, 1923 (6, 99-104, SARTON).

Matthiessen, Wilhelm, see **Theophrast von Hohenheim** (6, 56-57, SARTON).

Maxwell, Joseph. La Magie. 252 p. (Biblioth. de philos. scientif.) Paris, 1922 (6, 121, GUINET).

* **Maynard, Katherine.** Science in early English literature (1550-1650). 17, 94-126, 1932.

McMurrich, J. Playfair. LEONARDO DA VINCI the anatomist. XX+265 p., 89 fig. Baltimore, 1930 (15, 342-44, G. W. CORNER).

Mead, George Herbert (1863-1931). The philosophy of the present. XI+199 p. Chicago, 1932 (20, 307-10, H. T. DAVIS).

Means, Philip Ainsworth. Ancient civilizations of the Andes. XVIII+586 p., 224 ills., map. New York, 1931 (16, 465-68, SARTON).

Meisel, Max. A bibliography of American natural history. 1769-1865 3 vols. Brooklyn, N. Y., 1929 (13, 376-78, SARTON).

Meissner, Bruno. Babylonien und Assyrien. 2 vols. Heidelberg, 1920-24 (8, 195-98, RUSKA).

* **Meldrum, Andrew Norman.** (1876-1934). LAVOISIER's early work in science, 1763-1771. 19, 330-63, 1 pl., 1933; 20, 396-425, 2 pl., 1934.

Mendel, Lafayette B. Nutrition : the chemistry of life. 150 p. New Haven, 1923 (6, 447-48, R. M. MAY).

* **Menghin, Oswald.** Geschichtliches zur Ölbereitung aus Traubenkernen. 6, 400-03, 1924.

Mercier, Louis. La chasse et les sports chez les Arabes. 256 p., ills. Paris, 1927 (10, 511-13, SARTON).

Merriam, John C. The living past. XI+144 p., 16 pl. New York, 1930 (14, 456-58, SARTON).

Merrill, George Perkins (1854-1929). The first one hundred years of American geology. XXI+773 p., 36 pl., 130 ills. New Haven, 1924 (7, 498-501, SARTON).

(**Mersenne, Marin,** 1588-1648). Correspondance du P. MARIN MERSENNE, religieux minime, publiée par MME PAUL TANNERY, éditée et annotée par CORNELIS DE WAARD, avec la collaboration de RENÉ PINTARD, vol. I, 1617-1627. 666 p. Paris, 1933 (20, 467-70, PELSENEER).

Metchnikoff, Olga. Vie d'ELIE METCHNIKOFF (1845-1916). VIII+272 p. Paris, 1920 (4, 519-21, GUINET).

Metz, André. Une nouvelle philosophie des sciences — le causalisme

de EMILE MEYERSON. VI+211 p. Paris, 1928 (11, 149-50, METZGER).

Metzger, Hélène. La genèse de la science des Cristaux. 248 p. Paris, 1918 (3, 445-46, GUINET).

* — L'évolution du règne métallique d'après les alchimistes du XVIIe siècle. 4, 466-82, 1922.

— Les doctrines chimiques en France du début du XVIIe à la fin du XVIIIe siècle. T. 1, 496 p. Paris, 1923 (6, 57-64, SARTON).

— Les concepts scientifiques. Préface de ANDRÉ LALANDE. 195 p. Paris, 1926 (9, 467-70, SARTON).

* — La philosophie de la matière chez STAHL et ses disciples. 8, 427-64, 2 pl., 1926.

* — La théorie de la composition des sels et la théorie de la combustion d'après STAHL et ses disciples. 9, 294-325, 4 pl., 1927.

— NEWTON, STAHL, BOERHAAVE et la doctrine chimique. 332 p. Paris, 1930 (15, 351-53, PELSENEER).

— See **Pérès, J.** (15, 188-90, GUINET).

Meyer, Agnes E. Chinese painting as reflected in the thought and art of LI LUNG-MIEN, 1070-1106. XIV+252 p., ills. New York, 1923 (7, 145-47, SARTON).

Meyer, Ernst v. Geschichte der Chemie von den ältesten Zeiten bis zur Gegenwart, zugleich Einführung in das Studium der Chemie. Vierte Auflage. XIV+616 p. Leipzig, 1914 (4, 360-61, E. BLOCH).

Meyer-Steineg, Theodor. Ein Tag im Leben des GALEN. Mit Titelholzschnitt von F. H. EHMCKE. 64 p. Jena, 1913 (2, 204, SARTON).

—; **Sudhoff, K.** Geschichte der Medizin im Ueberblick, Erste Auflage, Jena, 1921 ; Zweite Auflage. Jena, 1922 (4, 368 ; 5, 188, SARTON).

* **Meyerhof, Max.** New light on ḤUNAIN IBN ISḤĀQ and his period. 8, 685-724, 1926.

* — An Arabic compendium of medico-philosophical definitions. 10, 340-49, 1928.

* — Notes sur quelques médecins juifs égyptiens qui se sont illustrés à l'époque arabe. 12, 113-31, 1929.

* — The "Book of treasures," an early Arabic treatise on medicine. 14, 55-76, 1930.

* — 'ALĪ AṬ-ṬABARĪ's "Paradise of wisdom," one of the oldest Arabic compendiums of medicine. 16, 6-54, 1931.

— See **al-Bīrūnī** (20, 451-54, SARTON); **Ghāfiqī, Aḥmad ibn Muḥammad** (20, 454-57, SARTON); **Isḥāq, Ḥunain ibn** (13, 106-09, SARTON).

Meyerson, Emile (1859-1933). De l'explication dans les sciences 2 vols. Paris, 1921 (4, 382-85, METZGER).

— La déduction relativiste. XVI+396 p. Paris, 1925 (7, 517-20, METZGER).

— Identité et réalité. XIX+571 p. Troisième édition. (Bibliothèque de philosophie contemporaine). Paris, 1926 (9, 470-72, METZGER).

— Du cheminement de la pensée. 3 vols. (Bibliothèque de philosophie contemporaine). Paris, 1931 (17, 444-45, METZGER).

Michel, B., see **'Abdu, Cheikh Moḥammad** (9, 456-57, MACDONALD).

* **Mieli, Aldo.** La teoria di ANAXAGORA e la chimica moderna (Lo sviluppo e l'utilizzazione di un' antica teoria). 1, 370-76, 1913.

* — VANNOCCIO BIRINGUCCIO ed il metodo sperimentale. 2, 90-99, 1914.

— I. Prearistotelici. XVI+503 p. (Storia generale del pensiero scientifico dalle origini a tutto il secolo XVIII; La scienza greca). Firenze, 1916 (4, 347-49, KARPINSKI).

— (editor). Gli scienziati italiani dall' inizio del medio evo ai nostri giorni. Repertorio biobibliografico dei filosofici, matematici, astronomi, fisici, chimici, naturalisti, biologi, medici, geografi italiani. Vol. 1, parte 1. VIII+236 p., 47 fig. Rome, 1921 (4, 112-14, SARTON).

— Pagine di storia della chimica. XXIII+254 p., 16 illus. e ritratto dell' autore. Rome, 1922 (5, 173-74, SARTON).

* **Mikami, Yoshio.** On the Japanese theory of determinants. 2, 9-36, 22 fig., 1914.

— The causes of the development of mathematics in Japan. *The Shigaku Zasshi*, 29, no. 3 (4, 75-76, Y. MIKAMI).

— Magic squares in Japanese mathematics (in Japanese). IV+174 p., Tokyo, 1917 (4, 76-77, Y. MIKAMI).

— Characteristics of Chinese mathematics (in Japanese). *Tôyô Gakuhô* 15, 431-84; 16, 49-109, Tokyo, 1926 (10, 80-82, D. E. SMITH).

* — The Ch'ou-Jen Chuan of YÜAN YÜAN. 11, 123-26, 1928.

— See **Smith, David Eugene** (2, 410-13, ARNOLD REYMOND).

* **Milhaud, Gaston** (1858-1918). Note sur les origines de la science. 1, 53-61, 1913.

— DESCARTES savant. 251 p. (Bibliothèque de philosophie contemporaine). Paris, 1921 (5, 426-29, SARTON).

Millàs Vallicrosa, J. Assaig d'història de les idees físiques i matemàtiques a la Catalunya medieval, vol. I. (Etudis Universitatis Catalans, série monogràfica I). Barcelona, 1931 (18, 203, THORNDIKE).

* — La introducción del cuadrante con cursor en Europa. 17, 218-58, 6 fig., 1932.

Miller, Barnette. Beyond the sublime porte. The Grand Seraglio of Stambul. With an introduction by HALIDÉ EDIB. XXV+281 p., 69 plans, ills. New Haven, 1931 (17, 439-40, MACDONALD).

* **Miller, G. A.** Different types of mathematical history. 4, 5-12, 1921.

Miller, Konrad. Mappae arabicae. Arabische Welt- und Länderkarten des 9.-13. Jahrhunderts in arabischer Urschrift, lateinischer Transkription und Übertragung, in neuzeitliche Kartenskizzen, mit einleitenden Texten hrsg. Stuttgart, 1926 (9, 458-62, SARTON).

Millikan, Robert A. Science and the new civilization. 194 p. New York, 1930 (14, 446-49, SARTON).

(**Mishnat ha-middot**). The Mishnat ha-middot, the first Hebrew geometry of about 150 C. E., and the geometry of MUHAMMAD IBN MUSA AL-KHOWARIZMI, the first Arabic geometry (c. 820) representing the Arabic version of the Mishnat ha-middot. Edited by SOLOMON GANDZ, with introduction, notes and translation. VIII+96 p. (Quell. u. Stud. z. Gesch. d. Math., Astr. u. Phy., Abtg. A: Quellen, 2. Bd.). Berlin, 1932 (20, 274-80, W. THOMSON).

Montagnier, Henry F., see **Freshfield, Douglas W.** (6, 64-71, SARTON).

Montessus de Ballore, Fernand de (1851-1923). Ethnographie sismique et volcanique, ou les tremblements de terre et les volcans dans la religion, la morale, la mythologie et le folklore de tous les peuples. VIII+206 p. Paris, 1923 (6, 437-39, GUINET).

— La géologie sismologique : les tremblements de terre. Avec une préface de PIERRE TERMIER, et une notice biographique de ARMAND RENIER. XIV+488 p., 118 fig., 16 pl. Paris, 1924 (8, 217-19, GUINET).

Moodie, Roy L. (1880-1934) Paleopathology. An introduction to the study of ancient evidences of disease. 567 p., 49 fig., 118 pl. Urbana, Ill., 1923 (6, 107-12, SARTON).

Moret, Alexandre. Mystères égyptiens. 326 p., 73 pl. Paris, 1913 (1, 504-05, MASSON-OURSEL).

Morgagni, Giovanni Battista (1682-1771); **Bianchi, Giovanni.** Carteggio inedito di G. B. MORGAGNI con GIOVANNI BIANCHI a cura e introduzione di G. BILANCIONI e un discorso di A. BIGNAMI (Classici delle Scienze e della Filosofia). Bari, 1914 (2, 213, A.G.-B.).

Morgan, Augustus de (1806-1871). Essays on the life and work of NEWTON. Edited, with notes and appendices, by PHILIP E. B. JOURDAIN. XIV+198 p. Chicago, 1914 (3, 283-85, JOURDAIN).

Morgan, Jacques de (1857-1924). La préhistoire orientale. Ouvrage posthume publié par LOUIS GERMAIN. T. I. Généralités. XXXVI + 334 p., 55 fig. Paris, 1925 (8, 519-21, GUINET).

Morley, Sylvanus Griswold. The inscriptions at Copan. XIV+644 p. Washington, 1920 (3, 292-94, SARTON).

Mottelay, Paul Fleury (1841-1922). Bibliographical history of electricity and magnetism chronologically arranged... With an introduction by SILVANUS P. THOMPSON (1851-1916) and foreword by Sir R. T. GLAZEBROOK. XX+673 p., ills. London, 1922 (6, 104-07, SARTON).

Müller, Franz Joh. Studien zur Geschichte der theoretischen Geodäsie. VIII+203 p. Augsburg, 1918 (3, 438-39, SARTON).

Müller, Gottfried. Aus mittelenglischen Medizintexten; Die Prosarezepte des Stockholmer Miszellankodex X, 90. (Kölner Anglistische Arbeiten hrsg. v. HERBERT SCHÖFFLER, 10). Leipzig, 1929 (14, 436, THORNDIKE).

(Abū Muḥammad 'Alī ibn Ḥazim al-Andalusī). The dove's neckring about love and lovers. Composed by ABŪ MUḤAMMAD 'ALĪ IBN ḤAZIM AL-ANDALUSĪ... Translated from the unique MS. in the University of Leiden, edited by D. K. PÉTROF in 1914, by A. R. NYKL. CXXIV+244 p. Paris, 1931 (17, 430-31, MACDONALD).

Musil, Alois. The manners and customs of the Rwala Bedouins. XIV+712 p., 59 fig. (American Geographical Society, Oriental explorations and studies no. 6). New York, 1928 (14, 444-46, SARTON).

(Nadīm, Ibn al-). Al-fihrist li IBN AL-NADĪM (Arabic edition of the Fihrist of IBN AL-NADĪM, with an Arabic introduction by one of the professors of the Egyptian University). 642 p. Cairo, 1348 (1929-30) (20, 283-85, SARTON).

Nariman, Gushtaspshah K. Iranian influence on Moslem literature,

translated from the Russian of INOSTRANZEV, with supplementary appendices from Arabic sources. Part 1. VIII+205 p. Bombay, 1918 (4, 537, MASSON-OURSEL).

— Literary history of Sanskrit Buddhism (from WINTERNITZ, SYLVAIN LÉVI, HUBER). XIII+383 p., Bombay, 1920 (4, 537, MASSON-OURSEL).

Naville, Adrien. Classification des sciences. Les idées maîtresses des sciences et leurs rapports. Troisième édition. IV+322 p. Paris, 1920 (4, 118, SARTON).

Needham, Joseph. The sceptical biologist. 270 p. New York, 1930. (17, 277-78, A. MEYER).

— See **Spallanzani** (2, 209-13, A. GEORGES-BERTHIER).

Neel, Alexandra. See **David-Neel, Alexandra.**

Neuburger, Albert. Die Technik des Altertums. Zweiter Auflage. XVIII+570 p., 676 fig. Leipzig, 1921 (6, 129-31, V. KLINCKOWSTROEM).

Neuburger, Max. Das alte medizinische Wein in zeitgenössischen Schilderungen. X+264 p., 9 ills. Wien, 1921 (4, 515-16, E. C. STREETER).

— History of medicine. Translated by ERNEST PLAYFAIR. 2 vols. Oxford, 1910; 1925 (9, 486-89, D'IRSAY).

Neudeck, Georg. Geschichte der Technik. 490 p., 550 fig., 3 port. Stuttgart, 1923 (6, 129-31, V. KLINCKOWSTROEM).

Neugebauer, Paul Victor. Astronomische Chronologie. 2 vols. Berlin, 1929 (14, 450-54, POGO).

Newbold, William Romaine (1865-1926). The cipher of ROGER BACON. Edited with foreword and notes by ROLAND GRUBB KENT. XXXII+224 p., 33 pl. Philadelphia, 1928 (11, 141-45, SARTON).

Newton, Isaac (1642-1727). A memorial volume edited for the Mathematical Association by W. J. GREENSTREET. VIII+181 p., 9 pl. London, 1927 (11, 387-93, SARTON).

— A bicentenary evaluation of his work. A series of papers prepared under the auspices of the History of Science Society, in collaboration with the American Physical Society, the Mathematical Association of America and various other organizations. Edited by F. E. BRASCH. IX+351 p., 3 pl. Baltimore, 1928 (11, 387-93, SARTON).

Nicolson, Marjorie Hope. CONWAY letters. The correspondence of ANNE, Viscountess of CONWAY, HENRY MORE, and their friends, 1642-1684. XXVII+517 p. New Haven, 1930 (16, 141-43, PELSENEER).

Nicomachus of Gerasa (d. 150). Introduction to arithmetic. Translated into English by MARTIN LUTHER D'OOGE. With studies in Greek arithmetic by FRANK EGLESTON ROBBINS and LOUIS CHARLES KARPINSKI. IX+318 p. New York, 1926 (9, 120-23, SARTON).

* **Nierenstein, M.** The early history of the first chemical reagent. 16, 439-46, 1931.

* —; **Chapman, P. F.** Enquiry into the authorship of the Ordinall of alchimy. 18, 290-321, 4 pl., 1932.

* — HELVETIUS, SPINOZA, and transmutation. 17, 408-11, 1932.

Nohl, Johannes. Der Schwarze Tod, eine Chronik der Pest. 373 p. Potsdam, 1924 (9, 380-82, D'IRSAY).

Nordenskiöld, Erik. The history of biology. Translated from the Swedish by LEONARD BUCKNALL EYRE. XII+629+XV p., ports. New York, 1928 (12, 336-40, SARTON).

Northrop, Filmer S. C. Science and first principles. XIV+299 p. New York, 1931 (17, 273-77, H. T. DAVIS).

Nourry, Emile. See **Saintyves, P.**

Nunn, George Emra. Criticism of **Charles de la Roncière** in *Geographical Review*, 15, 1925 (8, 168-73, 2 pl., J. K. WRIGHT).

Nykl, A. R., see **Abū Muḥammad 'Alī ibn Ḥazim al Andalusī** (17, 430-31, MACDONALD).

Obermaier, Hugo. Der Mensch der Vorzeit. XII+592 p., 39 pl., 12 maps, 395 fig. (Der Mensch aller Zeiten, Bd. 1). Berlin, (1912) (2, 234-37, SARTON).

Örsted, Hans Christian (1777-1851). Correspondance avec divers savants, publiée par M. C. HARDING. 2 vol. Copenhague, 1920 (4, 516, SARTON).

Ogata, K. Ogata Kô-an and Amori (in Japanese). 55 p. Osaka, 1927 (10, 80, Y. MIKAMI).

Ogura, K. History of mathematical education. IV+356 p. Tokyo, 1932 (20, 305-07, S. IKEHARA).

* **Oldfather, W. A.; Ellis, C. A.; Brown, D. M.** LEONHARD EULER's Elastic curves (De curvis elasticis, additamentum I to his Methodus inveniendi lineas curvas maximi minimive proprietate gaudentes, Lausanne and Geneva, 1744). Translated and annotated. 20, 72-160, facs., 1933.

* **O'Flynn,** see **Reilly, J.** 13, 298-320, 1930.

O'Leary, De Lacy. Arabic thought and its place in history. VIII+320 p. London, 1922 (4, 539-40, MACDONALD).

Oliver, Francis Wall (ed.) Makers of British botany. A collection of biographies by living botanists. 332 p. Cambridge, 1913 (1, 282-84, SARTON).

Olschki, Leonardo. Geschichte der neusprachlichen wissenschaftlichen Literatur. I. Band: Die Literatur der Technik und der angewandten Wissenschaften vom Mittelalter bis zur Renaissance. 2 vols. Heidelberg, 1919-22 (7, 128-29, WIELEITNER).

— Geschichte der neusprachlichen wissenschaftlichen Literatur. III. Bd.: GALILEI und seine Zeit. VIII+479 p. Halle (Saale), 1927 (10, 499-501, WIELEITNER).

Ornstein, Martha (1878-1915). The rôle of scientific societies in the seventeenth century. XIV+308 p. Chicago, 1928 (12, 154-56, SARTON).

(**Orta, Garcia da,** 16th century). Colloquies on the simples and drugs of India. New edition (Lisbon, 1895), edited and annotated by the CONDE DE FICALHO, translated with an introduction and index by Sir CLEMENTS MARKHAM. XXI+509 p., 26 pl. London, 1913 (2, 415-18, A. ARBER).

Osborn, Henry Fairfield. Impressions of great naturalists. XXVIII+216 p., 12 port. New York, 1924 (8, 188-89, R. M. MAY).

— From the Greeks to DARWIN. Second edition. XVI+398 p. New York, 1929 (13, 386-88, SARTON).

—; **Warren, Helen Ann.** COPE : master naturalist. The life and letters of EDWARD DRINKER COPE, with a bibliography of his writings classified by subjects. A study of the pioneer and foundation periods of vertebrate palaeontology in America. XVI+740 p., 30 fig., maps. Princeton, 1931 (20, 291-93, KOFOID).

Osborne, William Alexander. WILLIAM SUTHERLAND. A biography. 102 p. Melbourne, 1920 (4, 328-30, SARTON).

Osler, Sir **William** (1849-1919). The evolution of modern medicine. 243 p. New Haven, 1921 (4, 556-57, LIBBY).

Ostwald, Wilhelm (1853-1932). " Grosse Männer," 3. u. 4. Auflage. XIII+424 p. (Grosse Männer. Studien zur Biologie des Genies, 1). Leipzig, 1910 (1, 124, SARTON).

* — Genie und Vererbung. 1, 208-14, 1913.

— AUGUSTE COMTE, der Mann und sein Werk. Mit COMTE's Bildnis. XII+288 p. (Weltformat VIII). Leipzig, 1914 (2, 423-24, E. BLOCH).

— Lebenslinien. Eine Selbstbiographie. I. Teil. Riga-Dorpat-Riga 1853-1887. II. Teil. Leipzig, 1887-1905 ; III. Teil. Gross-Bothen und die Welt, 1905-27. 1926-27 (10, 74-80, 506-09, E. BLOCH).

Ostwalds Klassiker der exakten Wissenschaften. Leipzig, 1914-22 (5, 186-87, WIELEITNER).

Ôtsuki, Nyoden (d. 1931). Shinsen Yôgaku Nempyô (newly revised

chronological tables of Occidental learning in Japan). In Japanese. XVI+158 p. Tokyo, 1927 (10, 82-83, Y. MIKAMI).

Oudemans, Anthonie Cornelis (1831-1895). Kritisch-historisch overzicht der acarologie. Eerste gedeelte, 850 v. Chr. tot 1758. VIII+500 p., 70 fig. Tijdschrift voor entomologie, 69, October 1926 (15, 381-86, SARTON).

Packard, Francis R. Life and times of AMBROISE PARÉ (1510-1590). With a new translation of his Apology and an account of his journeys in divers places. XII+297 p., ills. New York, 1921 (4, 326-27, SARTON).

— History of medicine in the United States. 2 vols. New York, 1931 (19, 245-47, LEAKE).

Panayotatou, Angélique, G. L'hygiène chez les anciens Grecs. VIII+286 p. Paris, 1923 (7, 148, GUINET).

Papini, Giovanni. Sul pragmatismo (Saggi e ricerche). 1903-1911. Milan, 1913 (2, 245-47, MIELI).

Paracelsus (1493-1541), see **Theophrast von Hohenheim** (6, 56-57, SARTON).

Parat, see **Dejust** (13, 134-35, R. M. MAY).

Parks, George Bruner. RICHARD HAKLUYT (d. 1616) and the English voyages, edited with an introduction by JAMES A. WILLIAMSON. XVII+289 p., 32 fig. (American Geographical Society, special publication no. 10). New York, 1928 (13, 116-18, J. K. WRIGHT).

Parsons, William Barclay (1859-1932). ROBERT FULTON and the submarine. XIV+154 p., ills. New York, 1922 (5, 441-44, SARTON).

* **Partington, J. R.** Gunpowder. 18, 191, 1932.

* — GUYTON DE MORVEAU (1737-1816). 18, 191, 1932.

* **Patterson, Boyd C.** The origins of the geometric principle of inversion. 19, 154-80, 1933.

Patterson, T. S. JOHN MAYOW. In contemporary setting. II. MAYOW's views on combustion. 15, 47-96, 504-46, 2 pl., 1931.

Paucot, René. Le rôle des sciences dans l'éducation. 255 p. Paris, 1920 (4, 114, GUINET).

Paul, J. Harland. The last cruise of the Carnegie. With a foreword by JOHN A. FLEMING. XVII+331 p., 198 ills. Baltimore, 1932 (20, 300-02. SARTON).

Pearson, Karl. The life, letters and labours of FRANCIS GALTON (1822-1911). 2 vols. Cambridge, 1914-24 (8, 181-88, SARTON).

Peers, Edgar Allison. RAMON LULL. A biography. XVIII+454 p. London, 1929 (13, 368-70, SARTON).

Peet, Thomas Eric. (1882-1934) The Rhind mathematical papyrus, British Museum 10057 and 10058. Introduction, transcription, translation, and commentary. 136 p., 24 pl. Liverpool, 1923 (6, 553-57, SARTON).

(**Peirce, Charles Sanders,** 1839-1914). The collected papers of CHARLES SANDERS PEIRCE. Edited by CHARLES HARTSHORNE and PAUL WEISS. Vol. 1 : Principles of philosophy ; vol. 2 : Elements of logic. Cambridge, 1931-32 (19, 217-20, H. T. DAVIS ; 220-29, W. V. QUINE).

* **Pelseneer, Jean.** Une lettre inédite de NEWTON. 12, 237-54, 1929.

* — La correspondance de N. BOWDITCH. Opinions de LE GENDRE. 14, 227-28, 1930.

* — Une opinion inédite NEWTON sur " l'Analyse des anciens " à propos de l'Analysis geometrica de HUGO DE OMERIQUE. 14, 155-65, 1930.

* — Un journal inédit de HOOKE. 15, 97-103, 1931.

* — A propos de notations mathématiques. 17, 259, 1932.

* — Le dernier autographe de NEWTON. 17, 331, 1932.

* — GILBERT, BACON, GALILÉE, KÉPLER, HARVEY et DESCARTES : leurs relations. 17, 171-208, 1932.

Pelseneer, Paul. See **Académie royale de Belgique.**

Penzer, Norman Mosley, see **Basile, Giovanni Battista** (20, 464-67, MACDONALD).

Pérès, Joseph. Les sciences exactes. **Metzger, Hélène.** La chimie. **Ambard, L.,** La biologie. 198+170+116 p. (3e, 4e, et 5e parties de l'Histoire du monde, publiée sous la direction de E. CAVAIGNAC). Paris, 1930 (15, 188-90, GUINET).

—, see **Tannery, Paul** (16, 155-57, SARTON).

(Perkin, William Henry, jr., 1860-1929). The life and work of Professor WILLIAM HENRY PERKIN, jr. 138 p. London, 1932 (19, 207, T. L. DAVIS).

Peters, Christian H. F., (1813-1890) see **Ptolemy** (2, 401, SARTON).

Peterson, Houston. HUXLEY, prophet of science. XIV+338 p., 4 pl. London, 1932 (20, 297-98, KOFOID).

Petrie, W. M. Flinders. Tools and weapons illustrated by the Egyptian collection in University College, London, and 2,000 outlines from other sources. VII+73 p., 4+LXXIX pl. London, 1917 (3, 314-15, SARTON).

Pétrof, D. K., see **Abū Muḥammad 'alī ibn Ḥazim al Andalusī** (17, 430-31, MACDONALD).

Petronievics, Branislav. L'évolution universelle. Exposé des preuves et des lois de l'évolution mondiale et des évolutions particulières (inorganique, intellectuelle et sociale). I. L'évolution mondiale, inorganique et organique. 214 p., 3 fig. Paris, 1921 (4, 564-65, GUINET).

* — CHARLES DARWIN and ALFRED RUSSEL WALLACE. Beitrag zur höheren Psychologie und zur Wissenschaftsgeschichte. 7, 25-57, 1925.

Petrucci, Raphaël (1872-1917). Kiai Tseu Yuan Houa Tchouan. Les enseignements de la peinture du jardin grand comme un grain de moutarde. Encyclopédie de la peinture chinoise. Traduction

et commentaires. XII+519 p., 500 ills. Paris, 1918 (4, 345-47, SARTON).

Pfannmüller, Gustav. Handbuch der Islam-Literatur. VIII+436 p. Berlin, 1923 (6, 425-27, RUSKA).

Pharmacopoeia Augustana, a facsimile of the first edition. With introductory essays by THEODOR HUSEMANN (Publications of the State Historical Society of Wisconsin, Hollister Pharmaceutical Library, no. 1). Madison, 1927 (10, 69-71, 2 pl., SARTON).

Picard, Emile. Un double centenaire, NEWTON et LAPLACE. Discours prononcé à la Sorbonne, le mercredi 4 mai 1927, 26 p. Paris, 1927 (11, 387-93, SARTON).

— See **Histoire des sciences.**

— Eloges et discours académiques. VIII+400 p. Paris, 1931 (17, 443, SARTON).

Piney, Alfred. Recent advances in microscopy. Biological applications. Edited by A. PINEY. VIII+260 p., 83 fig. Philadelphia, 1931 (17, 446-47, KOFOID).

Pinot, Virgile. La Chine et la formation de l'esprit philosophique en France (1640-1740). 480 p. Paris, 1932 (20, 482-84, HAMILTON).

— Documents inédits relatifs à la connaissance de la Chine en France de 1685 à 1740. 130 p. Paris, 1932 (20, 482-84, HAMILTON).

Pintard, René, see **Mersenne, M.** (20, 467-70, PELSENEER).

Pitoni, Rinaldo. Storia della fisica. 405 p. Torino, 1913 (1, 742-44, MIELI).

Plattard, Jean. GUILLAUME BUDÉ (1468-1540) et les origines de l'humanisme français. 38 p. Paris, 1923 (6, 413-15, GUINET).

(Plutarch). PLUTARQUE. Isis et Osiris. Traduction nouvelle de MARIO MEUNIER, avec avant propos, prolégomènes et notes. 238 p. Paris, 1924 (8, 165-67, R. PETIT).

* **Pogo, Alexander.** The astronomical ceiling-decoration in the tomb of Senmut (XVIIIth dynasty). 14, 301-25, 10 pl., 4 fig., 1930.

* — CARL SCHOCH (1873-1929). 15, 163-69, 1 pl., 1931.

* — Zum Problem der Identifikation der nördlichen Sternbilder der alten Aegypter. 16, 102-14, 3 fig., 1931.

* — The astronomical inscriptions on the coffins of ḤENY (XIth dynasty ?). 18, 7-13, 2 fig., 1932.

* — Calendars on coffin lids from Asyut. (Second half of the third millennium). 17, 6-24, 6 pl., 1932.

* — Earliest diagrams showing the axis of a comet tail coinciding with the radius vector. (*Query* no. 35). 20, 443, 1934.

Polo, Marco (1254-1323). Il milione. Prima edizione integrale a cura di LUIGI FOSCOLO BENEDETTO sotto il patronato della città di Venezia (Comitato geografico nazionale italiano, pubblicazione n. 3). CCXVII+283 p., ills. Florence, 1928 (11, 135-38, J. K. WRIGHT).

Potonniée, Georges. Histoire de la découverte de la photographie. 322 p., 99 fig. Paris, 1925 (8, 511-13, GUINET).

Power, Sir **D'Arcy.** Selected writings, 1877-1930. x+368 p., 16 pl., 1 map, 9 figs. Oxford, 1931 (16, 471-72, KOFOID).

Poyer, Georges. Les problèmes généraux de l'hérédité psychologique, 306 p. (Bibliothèque de philosophie contemporaine). Paris, 1921 (5, 474-75, GUINET).

Preisler, Oscar [Christian Strange] (b. in Aarhus, Denmark, 1879, Jan. 6-D. Kongens Lyngby, nr. Copenhagen, 1920, May 16) Bibliographischer Führer durch die medizinische Literatur. Ein Grundriss. 87 p. Köbenhavn, 1920 (4, 109, SARTON).

(Ptolemy). PTOLEMY's Catalogue of stars. A revision of the Almagest by CHRISTIAN H. F. PETERS and EDWARD BALL KNOBEL. 207 p., 4 pl. Washington, 1915 (2, 401, SARTON).

— CLAUDII PTOLEMAEI geographiae codex Urbinas Graecus 82. Photo-

graphic reproduction with Latin introduction and notes by JOSEPH FISCHER, S. J. 4 vols. Leiden, 1932 (20, 267-70, SARTON).

— Geography of CLAUDIUS PTOLEMY. Translated into English and edited by EDWARD LUTHER STEVENSON. Based upon Greek and Latin Mss. and important late fifteenth and early sixteenth century printed editions. With an introduction by JOSEPH FISCHER, S. J. XVI+167 p., 29 maps. New York, 1932 (20, 270-74, SARTON).

Pupin, Michael. From immigrant to inventor. 396 p., ills. New York (fifth printing). 1924 (7, 135-38, SARTON).

Pusey, William Allen. The history of dermatology. XVII+233 p., 32 ills. Springfield, Ill., 1933 (20, 504-05, LEAKE).

Radcliffe, William. Fishing from the earliest times. XVII+478 p., ills. New York, 1921 (4, 568-71, SARTON).

Rádl, Emanuel. Geschichte der biologischen Theorien in der Neuzeit. 1 Teil. 2. gänzlich ungearbeitete Auflage. XIII+351 p. Leipzig, 1913 (2, 224-29, SARTON).

* — PARACELSUS. Eine Skizze seines Lebens. 1, 62-94, 1913.

— The history of biological theories. Translated and adapted from the German by E. J. HATFIELD. XII+408 p. Oxford, 1930 (15, 195-96, SARTON).

* **Raeder, Hans.** JOHAN LUDVIG HEIBERG. 11, 367-74, 1 pl., 1928.

* **Rainoff, T. J.** Wave-like fluctuations of creative productivity in the development of west-European physics in the eighteenth and nineteenth centuries. 12, 287-319, 7 fig., 9 tables, 1929.

* — ALEXANDRE VASSILIEVIČ VASSILIEFF (Né le 6 Août 1855. Décédé le 6 octobre 1929). 14, 342-48, 1930.

Rāmānujācarya, N.; Kaye, G. R. The Triśatikā of SRĪDHARĀCAYA. Bibliotheca Mathematica, 13, p. 203-17. Leipzig, 1913 (1, 516, MASSON-OURSEL).

Ramón y Cajal, Santiago. Charlas de café. 3*a* edición. 383 p. Madrid, 1922 (8, 498-503, R. M. MAY).

— Recuerdos de mi vida. 3ª edición. 445 p., 80 pl. Madrid, 1923 (8, 498-503, R. M. MAY).

Rapson. Edward James. Ancient India, from the earliest times to the first century, A.D. VIII+199 p., 6 ills., 2 maps. Cambridge, 1914 (3, 83-84, MASSON-OURSEL).

Rathgen, Bernhard (1847-1927). Das Geschütz im Mittelalter. XIX+718 p., 16 pl. Berlin, 1928 (13, 125-27, SARTON).

Rāy, Praphulla Chandra. A history of Hindu chemistry from the earliest times to the middle of the sixteenth century A.D., with Sanskrit texts, variants, translations and illustrations. T. 1, 2ᵉ éd., t. 2, Calcutta, 1903 and 1909 (3, 68-73, MASSON-OURSEL).

* — Chemical knowledge of the Hindus of old. 2, 322-25, 1919.

Razik, Cheikh Moustapha Abdel, see **'Abdu, Shaikh Muḥammad** (9, 456-57, MACDONALD).

Réaumur, René Antoine Ferchault de (1683-1757). The natural history of ants. From an unpublished manuscript in the Archives of the Academy of Sciences of Paris. Translated and annotated by WILLIAM MORTON WHEELER. XVII+280 p., port. New York, 1926 (9, 445-47, SARTON).

Reiche, Fritz. Die Quantentheorie. Ihr Ursprung und ihre Entwicklung. VI+231 p. Berlin, 1921 (4, 375, SARTON).

* **Reilly, J.; O'Flynn, N.** RICHARD KIRWAN, an Irish chemist of the eighteenth century. 13, 298-319, 1 pl., 1930.

Renard, Georges (1847-1930). Les travailleurs du livre et du journal. 3 vol. de la Bibliothèque sociale des métiers. Paris, 1925-26 (9, 143-44, GUINET).

* **Renaud, H. P. J.** Additions et corrections à SUTER. " Die Mathematiker und Astronomen der Araber." 18, 166-83, 1932.

Rey, Abel. La théorie de la physique chez les physiciens contemporains. Deuxième édition revue et augmentée d'un aperçu sur l'évolution actuelle de la physique. XII+346 p. Paris, 1923 (5, 484-85, GUINET).

— Le retour éternel et la philosophie de la physique. 320 p. Paris, 1927 (9, 477-79, SARTON).

Ribera y Tarragó, Julián (1858-1934). Disertaciones y opúsculos. Edición colectiva que en su jubilación del profesorado le ofrecen sus discípulos y amigos (1887-1927). Con una introducción de MIGUEL ASÍN PALACIOS. 2 vols. Madrid, 1928 (12, 161-63, SARTON).

Richards, Gertrude, see **Davison, Ellen Scott** (11, 145-47, SARTON).

* **Richardson, Hugh.** Science and international coöperation. 14, 222-25, 1930.

Rif'at Pasha, Ibrāhīm. View of the two sanctuaries (mir' āt al-ḥaramain). In Arabic, 2 vols. Cairo, 1344/1925 (9, 130-33, MEYERHOF).

Rignano, Eugenio (1870-1930). Psychologie du raisonnement. XII+544 p. Paris, 1920 (4, 90-93, SARTON).

— La mémoire biologique. Essais d'une conception philosophique nouvelle de la vie. 248 p. Paris, 1923 (6, 564-65, GUINET).

Roback, Abraham Aaron. Behaviorism and psychology. 284 p. Cambridge, 1923 (6, 112-15, LENOIR).

Robin, Léon. La pensée grecque et les origines de l'esprit scientifique. XXIV+480 p., 1 map.; (l'Evolution de l'humanité, 13). Paris, 1924 (6, 557-59, GUINET).

Robinson, James Harvey. Civilization. 62 p. London, Encyclopaedia Britannica, 1929 (13, 136-37, SARTON).

Rohde, Eleanour Sinclair. Author of "A garden of herbs." The old English herbals. XII+243 p., frontispiece. 17 ill. London, 1922 (5, 457-61, SARTON).

* **Rome, A.** Le R. P. HENRI BOSMANS, S.J. (1852-1928). Notice biographique et index analytique de ses travaux historiques. 12, 88-112, 1929.

Roncière, Charles de la. La carte de CHRISTOPHE COLOMB : the

map of CHRISTOPHER COLUMBUS. Text in French and English. 84 cols., 6 fig., 2 pl., facs. Paris, 1924 (8, 726-28, DE LA RONCIÈRE).

— La carte de CHRISTOPHE COLOMB : the map of CHRISTOPHER COLUMBUS. Text in French and English paged separately with separate title page and table of contents, each part consisting of 42 cols. of text. 6 fig., 2 pl., facs. Paris, 1924 (8, 168-73, 2 pl., J. K. WRIGHT).

Rosenbusch, Hans, see **Gulat-Wellenburg, W. von** (8, 728-31, ROBACK).

* **Rosenfeld, L.** Le problème logique de la définition des nombres irrationnels. 9, 345-58, 1927.

* — La théorie des couleurs de NEWTON et ses adversaires. 9, 44-65, 1927.

* — Le premier conflit entre la théorie ondulatoire et la théorie corpusculaire de la lumière. 11, 111-22, 1928.

* — RENÉ-FRANÇOIS DE SLUSE et le problème des tangentes. 10, 416-34, 5 fig., 1928.

* — EDMUND HOPPE (geb. 1854, gest. 1928). 13, 45-50, 1 pl., 1929.

* — MARCUS MARCIS Untersuchungen über das Prisma und ihr Verhältnis zu NEWTONS Farbentheorie. 17, 325-30, 1932.

Roth, Leon. Correspondence of DESCARTES and CONSTANTYN HUYGENS, 1635-1647. Edited from manuscripts now in the Bibliothèque Nationale, formerly in the possession of the late HARRY WILMOT BUXTON. LXXV+351 p. Oxford, 1926 (9, 434-37, SARTON).

Rouff, Marcel. Les mines de charbon en France au XVIIIe siècle (1744-1791). LXII+628 p. Paris, 1922 (5, 432-37, GUINET).

Rougier, Louis. La scolastique et le thomisme. XLIV+812 p. Paris, 1925 (8, 219-21, GUINET).

Royds, Thomas Fletcher. The beasts, birds and bees of VIRGIL. A naturalist's handbook to the Georgics, with a preface by W. WARDE FOWLER. XIX+107 p. Oxford, 1914 (2, 205, ROBERTSON).

Rudwin, Maximilian. The devil in legend and literature. XIV+354 p. Chicago, 1931 (18, 208, THORNDIKE).

Ruhräh, John. Pediatrics of the past. An anthology. With a foreword by FIELDING H. GARRISON. XXVI+592 p., 54 ill., 18 pl. New York, 1925 (8, 386-88, SARTON).

* **Ruska, Julius.** Die Mineralogie in der arabischen Literatur. 1, 341-50, 1913.

— Zur ältesten arabischen Algebra und Rechenkunst, in Sitzungsberichte der Heidelberger Akademie der Wissenschaften, 1-125, 1917 (4, 67-70, KARPINSKI).

— Methodik des minerlogisch-geologischen Unterrichts. VIII+520 p., 35 fig., 1 pl. Stuttgart, 1920 (3, 443-44, SARTON).

* — AL-BĪRŪNĪ als Quelle für das Leben und die Schriften AL-RĀZĪ's. 5, 26-50, 1923.

* — HEINRICH SUTER (Geb. 4/1/1848, gest. 17/3/1922). Wakam min muḥibbin qad afadta wa' innahu. Ligairika mimman rāma ša'waka hāftun. Aus einem Gedicht auf den Tod THĀBIT IBN QURRA's mitgeteilt in IBN ABI UṢAIBI'A I, 218. 5, 409-17, 1 pl., 1923.

— Arabische Alchemisten. II. JA'FAR ALṢĀDIQ, der sechste Imām. Mit einer Nachbildung der Handschrift Gotha A. 1292 (Haleb 338) in Manuldruck. 210 p. (Arab). Heidelberg, 1924 (7, 119-21, SARTON).

— Tabula Smaragdina. Ein Beitrag zur Geschichte der hermetischen Literatur (Arbeiten aus dem Institut für Geschichte der Naturwissenschaft, 4). VII+248 p. Heidelberg, 1926 (9, 375-77, SARTON).

* — CARL SCHOY (Geb. den 7 April 1877, gest. den 6. Dezember 1925). 9, 83-95, 1 pl., 1927.

— Turba philosophorum : ein Beitrag zur Geschichte der Alchemie. 368 p. (Quell. u. Stud. z. Gesch. d. Naturw. u. d. Med., 1). Berlin, 1931 (20, 302-05, E. J. HOLMYARD).

* — HEINRICH WIELEITNER (geb. 31/10/1874, gest. 27/12/1931). 18, 150-65, 1 pl., 1932.

—, see **Aristotle** (1, 266-67, MASSON-OURSEL).

Russell, Bertrand. Our knowledge of the external world as a field for scientific method in philosophy. x+245 p. Chicago, 1914 (3, 311-14, JOURDAIN).

—, see **Whitehead, A. N.** (10, 513-19, LANGFORD).

* **Russell, Josiah C.** Hereford and Arabic science in England about 1175-1200. 18, 14-25, 1932.

Rychlík, Karel, see **Bolzano, Bernard** (15, 353-55, R. STRUIK).

Sageret, Jules. La vague mystique. 180 p. (Bibl. de culture générale). Paris, 1920 (3, 448, GUINET).

de Saint-Rat, see **Dejust** (13, 134-35, R. M. MAY).

Saintyves, P. La guérison des verrues. De la magie médicale à la psychothérapie. 85 p. Paris, 1913 (2, 242-43, SARTON).

Sánchez Pérez, José A. Compendio de Álgebra de ABENDÉDER. Texto árabe, traducción y estudio. Junta para ampliación de estudios e investigaciones científicas, 47. 194 p., Madrid, 1916 (4, 509, RUSKA).

— Biografías de matemáticos árabes que florecieron en España. Obra premiada con accésit por la real Academia de ciencias exactas, físicas y naturales de Madrid. 164 p. Madrid, 1921 (4, 537, MACDONALD).

— Las Matemáticas en la Biblioteca del Escorial Obra premiada por la Real Academia, de ciencias exactas fisicas y naturales de Madrid. 365 p., 61 pl. Madrid, 1929 (13, 128-29, SARTON).

* — El libro de las cruces. Una obra astrológica que Don ALFONSO X, rey de España, mandó traducir del árabe. 14, 77-132, 1930.

Sand, René. Organisation industrielle, médecine sociale et éducation civique en Angleterre et aux Etats-Unis. 896 p. Bruxelles, 1920 (4, 122-123, SARTON).

Sandys, Sir John Edwin (1844-1922). A history of classical scholarship. Vol. 1 : From the VIth century B.C. to the end of the Middle Ages. 3rd ed. XXIV+702 p., 24 ills. Cambridge, 1921 (4, 335-36, SARTON).

Sarkar, Benoy Kumar. The positive background of Hindu sociology : Book I, "Non-political." With appendices by B. SEAL. (Sacred books of the Hindus, XVI). XXIV+365 p. Allahabad, 1914 (3, 63-64, MASSON-OURSEL).

* **Sarton, George.** Le but d' "Isis." 1, 193-96, 1913.

* — Comment augmenter le rendement intellectuel de l'humanité? 1, 219-42, 416-73, 1913.

* — L'histoire de la science. 1, 3-46, 1913.

* — Bibliographie synthétique des revues et des collections de livres. Introduction générale. 2, 125-31, 1914.

* — Soixante-deux revues et collections relatives à l'histoire des sciences. 2, 132-61, 1914.

* — Les tendances actuelles de l'histoire des mathématiques. 1, 577-89, 1914.

— The history of science. *Monist*, 26, 321-65, Chicago, 1916 (3, 310, JOURDAIN).

* — La synthèse géologique de 1775 à 1918. 2, 357-94, 2 pl., 1919.

* — War and civilization. 2, 315-21, 1919.

* — The faith of a humanist. 3, 6, 1920.

* — Synthetic bibliography. With special reference to the history of science. 3, 159-70, 1920.

* — HERBERT SPENCER (1820-1903). 3, 375-90; 1 pl., 1921.

* — Introduction to the history and philosophy of science (preliminary note). 4, 23-31, 1921.

* — The principle of symmetry and its applications to science and to art. 4, 32-38, 1921.

* — The teaching of the history of science (second article). 4, 225-49, 1922.

* — Knowledge and charity. 5, 5-19, 1923.

* — PHILIP E. B. JOURDAIN (1879-1919). 5, 126-29, 1923.

* — The new humanism. 6, 9-42, 1924.

* — WALTON. A medieval aquiculturist. 6, 306-10, 1924.

* — Histoire de l'exploration des Pyrénées. 8, 492-96, 1926.

* — Preface to volume VIII (Being the third volume published under the auspices of the History of Science Society). 8, 7-11, 1 pl., 1926.

* — Le sentiment du passé. 8, 391-402, 1926.

* — Sur la tolérance intellectuelle. 8, 241-53, 1926.

— Introduction to the history of science. Vol. 1, From HOMER to OMAR KHAYYAM. XII+839 p. (Carnegie Institution, publication no. 376). Washington, 1927 (10, 88-92, HASKINS).

* — MOSELEY (1887-1915). The numbering of the elements. 9, 96-111, 1 pl., 1927.

* — Preface to volume IX. 9, 226-33, 1927.

* — A sidelight upon geographical knowledge in the first half of the XVth century. 9, 118-19, 1927.

* — The foundation of electromagnetism (1820). 10, 435-443, 1 pl., 8 facs., 1928.

* — Preface to volume eleven. 11, 5-14, 1928.

* — The sea with a double bottom. (*Query* no. 11). 11, 127, 1928.

* — SPINOZA, 1632-1677-1927. 10, 11-15, 4 pl., 1928.

* — Tacuinum, taqwīm. With a digression on the word almanac. (*Answer* no. 10). 10, 490-93, 1928.

* — The discovery of the law of conservation of energy. 13, 18-44, facs., 1929.

* — Preface to volume twelve (ALEXANDER CSOMA). 12, 5-9, 1 pl., 1929.

* — Trois autographes inédits d'AUGUSTE COMTE (1826, 1847, 1850). 13, 103-05, 1 pl., 1929.

* — 'UMAR AL-'ĀLIM. (*Query* no. 12). 12, 324, 1929.

* — ARISTOTLE and PHYLLIS. 14, 8-19, 4 pl., 1 fig., 1930.

* — Discovery of the theory of natural selection. With facsimile reproductions (Nos. VIII-IX) of DARWIN's and WALLACE's earliest publications on the subject (1859). 14, 133-54, 1930.

* — Discovery of the dispersion of light and of the nature of color (1672). With facsimile reproduction (no. X). of NEWTON's New theory about light and colors (Philosophical Transactions, no. 80, February 19, 1672, p. 3075-87). 14, 326-41, 1930.

* — IMHOTEP. Two statuettes in the Boston Museum. 14, 226, 1 pl., 1930.

* — Medallic illustrations of the history of science. 8, 333-35, 4 pl., 1926; 9, 359-62, 4 pl., 420-23, 4 pl., 1927; 10, 485-88, 4 pl., 1928; 12, 146-48, 4 pl., 320-22, 4 pl., 1929; 13, 353-55, 4 pl. 1930; 14, 215-18, 4 pl., 417-19, 4 pl., 1930.

* — STEPHEN HALES' library. (*Query* no. 15). 14, 422, 1930.

* — The teaching of the history of science (third article). 13, 272-97, 1930.

* — On the use of the word kardaja. (*Answer* no. 14). 14, 421-22, 1930.

* — The discovery of the electric cell (1800). With facsimile reproduc-

tion (no. XI) of ALEXANDER VOLTA's memoir " On the electricity excited by the mere contact of conducting substances of different kinds " (Philosophical Transactions of the Royal Society, London 1800, p. 403-31, 1 pl.). 15, 124-57, 1931.

* — Discovery of the aberration of light. With facsimile reproduction (no. XII) of JAMES BRADLEY's letter to EDMOND HALLEY giving an account of his discovery (Philosophical Transactions, no. 406, vol. 35, 637-61, 1729). 16, 233-65, 1 pl., 1931.

* — The discovery of the mammalian egg and the foundation of modern embryology. With a complete facsimile (no. XIII) of K. E. VON BAER's fundamental memoir : De ovi mammalium et hominis genesi (Leipzig, 1827). 16, 315-78, 2 pl., 1931.

* — EUGENIO RIGNANO (1870-1930). 15, 158-62, 1 pl., 1931.

* — The history of science and the new humanism. 178 p. New York, 1931 (16, 451-55, H. T. DAVIS).

* — How to celebrate the memory of great men. 15, 339, 1931.

* — JORACH (or YŌRAĀH), unknown author of a book on animals. (*Query* no. 16). 15, 171, 1931.

* — The whaling museums of New Bedford and Nantucket. 16, 115-23, 1931.

* — Discovery of conical refraction by WILLIAM ROWAN HAMILTON and HUMPHREY LLOYD (1833). With facsimile reproduction (no. XIV) of HUMPHREY LLOYD's first paper On the Phaenomena presented by Light in its Passage along the Axes of Biaxal Crystals, originally published in the London and Edinburgh Philosophical Magazine and Journal of Science, conducted by Sir DAVID BREWSTER, RICHARD TAYLOR and RICHARD PHILLIPS (vol. 2, 112-20, 1833). 17, 154-70, 1 pl., 1932.

* — Discovery of the main nutation of the earth's axis. With facsimile reproduction (no. XV) of JAMES BRADLEY's account of it (Philosophical Transactions, no. 485, beginning vol. 45, p. 1-43, 1748). 17, 333-83, 1932.

* — Section of the history of science of the Carnegie Institution. Thirteenth annual report for the period extending from July 1, 1930 to June 30, 1931 (previous reports appeared in Year Books nos. 18-29; the twelfth also in *Isis* 15, 170-71). 17, 209-17, 1932.

* — Arabic "commercial" arithmetic. (*Query* no. 23). 20, 260-62, 1933.

* — Preface to the nineteenth volume of *Isis*, (Fez) 19, 6-10, 1933.

* — Second preface to the nineteenth volume of *Isis* (Beirût). 19, 322-29, 1933.

* — Section of the history of science of the Carnegie Institution. Fourteenth annual report for the period extending from July 1, 1931, to June 30, 1932 (previous reports appeared in Year Books nos. 18-30; the twelfth and thirteenth also in *Isis*, 15, 170-71 and 17, 209-17, respectively). 19, 15-18, 1933.

* — The teaching and study of the history of science at the University of California. 20, 6-14, 1933.

* — Introduction of cacti and other Cactaceae into Europe. (*Query* no. 33). 20, 442, 1934.

Sastri, Sivanath. History of the Brahmo Samaj. 2 vols. Calcutta, 1912 (3, 428-29, SARTON).

* **Saussure, Léopold de** (1866-1925). La cosmologie chinoise à propos du nouveau drapeau chinois. 5, 140-42, 1923.

— Les origines de l'astronomie chinoise. x+594+IV p., 39 fig. Paris, 1930 (17, 267-71, POGO).

Saxl, Fritz; Beer, Arthur. The zodiac of Quṣayr 'Amra, by FRITZ SAXL. The astronomical significance of the zodiac of the Quṣayr 'Amra, by ARTHUR BEER. Reprinted from K. A. C. CRESWELL, Early Muslim architecture, vol. 1, p. 289-303, 19 fig., 1 pl. Oxford, 1932 (19, 504-06, POGO).

(**Scellinck, Thomas,** from Thienen). The "Book of surgeries" of Master THOMAS SCELLINCK from Thienen. After the manuscripts

of the Royal Library, The Hague, and of the British Museum, London. Published by E. C. VAN LEERSUM. (Opuscula selecta Neerlandicorum de arte medica fasciculus septimus quem curatores miscellaneorum quae vocantur Nederlandsch Tijdschrift voor geneeskunde collegerunt et ediderunt, Amstelodami, 1928 (12, 152-53, SARTON).

Schiaparelli, Giovanni (1835-1910). Scritti sulla storia della astronomia antica. Parte prima. Scritti editi. T. I, VIII+462 p., port., 2 facs. Bologna, 1925 (8, 503-06, GUINET).

Schiff, Julius, see **Helmholtz, Hermann von** (20, 287-90, E. WOLF).

Schiffner, Carl, see **Agricola, Georg** (13, 113-16, SARTON).

Schmidt, Alfred (1867-1931). Drogen und Drogenhandel im Altertum. VIII+136 p. Leipzig, 1924 (8, 192, RUSKA).

Schmidt, Heinrich. Was wir ERNST HAECKEL verdanken. Ein Buch der Verehrung und Dankbarkeit. Im Auftrag des Deutschen Monistenbundes herausgegeben von Heinrich Schmidt. 2 vols. (Weltformat IX). Leipzig, 1914 (4, 330-35, E. BLOCH).

Schmidt, Max C. P. Kulturhistorische Beiträge zur Kenntnis des griechischen und römischen Altertums. Erstes Heft: Zur Entstehung und Terminologie der elementaren Mathematik. 2nd ed. XVI+269 p., Leipzig, 1914. Zweites Heft: Die Entstehung der antiken Wasseruhr, 113 p. Leipzig, 1912. (4, 336-38, SARTON).

* **Schoy, Carl** (1877-1925). Aus der astronomischen Geographie der Araber. Originalstudien aus "Al-Qānūn al-Mas'ūdī" des arabischen Astronomen MUḤ. B. AḤMED ABŪ'L-RIḤĀN AL-BĪRŪNĪ (973-1048). 5, 51-74, 6 fig., 1923.

* — Beiträge zur arabischen Trigonometrie (Originalstudien nach unedierten arabisch-astronomischen Manuscripten). (Ein Festgruss zum 70. Geburtstag GUSTAF ENESTRÖMS in Stockholm). 5, 364-99, 2 fig., 1923.

* — Sonnenuhren der spätarabischen Astronomie. 6, 332-60, 5 fig., 1924.

* — Drei planimetrische Aufgaben des arabischen Mathematikers

ABŪ'L-JŪD MUḤAMMAD IBN AL-LĪTH. 7, 5-8, 3 fig., 1925.

* — Behandlung einiger geometrischen Fragepunkte durch muslimische Mathematiker. 8, 254-63, 6 fig., 1926.

* — Graeco-arabische Studien nach mathematischen Handschriften der Vizeköniglichen Bibliothek zu Kairo, als Festgruss zum 70. Geburtstag des Herrn Prof. J. L. HEIBERG, Kopenhagen, dargestellt. 8, 21-40, 12 fig., 1926.

* — 'ALĪ IBN 'ĪSĀ, Das Astrolab und sein Gebrauch. (Uebersetzt von C. SCHOY). 9, 239-54, 1927.

— Die trigonometrischen Lehren des persischen Astronomen ABŪ L-RAIḤĀN MUḤ. IBN AḤMAD AL-BĪRŪNĪ dargestellt nach al-Qānūn al-Mas'ūdī. Nach dem Tode des Verfassers hrsg. v. JULIUS RUSKA und HEINRICH WIELEITNER. XII+108 p., 50 fig. Hannover, 1927 (10, 495-97, SARTON).

Schroeder, Léopold von (1851-1920). Reden und Aufsätze, vornehmlich über Indiens Literatur und Kultur. XIII+430 p. Leipzig, 1913 (3, 81-82, MASSON-OURSEL).

* **Schub, Pincus.** A mathematical text by MORDECAI COMTINO. (Constantinople, XVth century). 17, 54-70, 1932.

Schütte, Gudmund. PTOLEMY's maps of northern Euorpe. A reconstruction of the prototypes, published by the Royal Danish Geographical Society. XVI+160+XXXIII p., 31 maps. Copenhagen, 1917 (3, 422-24, SARTON).

Schultz, Wolfgang. Zeitrechnung und Weltordnung in ihren übereinstimmenden Grundlagen bei den Indern, Iraniern, Hellenen, Italikern, Germanen, Kelten, Litauern, Slawen. (Mannusbibliothek, 35). VII+289 p., 75 fig. Kabitsch, 1924 (8, 193-95, RUSKA).

Schwalbe, Ernst. Vorlesungen über Geschichte der Medizin. Dritte Auflage. X+181 p. Jena, 1920 (4, 557, SARTON).

Schweinfurth, Georg. Arabische Pflanzennamen aus Aegypten, Algerien und Jemen. XXIV+232 p. Berlin, 1912 (1, 268-71, RUSKA).

Scott, Robert, see **Liddell, H. G.**

Scott, Walter. Hermetica. The ancient Greek and Latin writings which contain religious or philosophic teachings ascribed to HERMES TRISMEGISTUS. Edited with English translation and notes. Vol. 1. Introduction. Texts and translation. 549 p. vol 2, Notes on the Corpus Hermeticum. 482 p. Oxford, 1924-5 (8, 343-46, SARTON).

Sears, Clara Endicott. Days of delusion. A strange bit of history. XXVIII+264 p., ills. Boston, 1924 (6, 576-78, SARTON).

Sedgwick, Henry Dwight. MARCUS AURELIUS. A biography told as much as may be by letters, together with some account of the Stoic religion and an exposition of the Roman government's attempt to suppress Christianity during MARCUS' reign. 309 p. New Haven, 1921 (5, 148-49, SARTON).

— IGNATIUS LOYOLA. An attempt at an impartial biography. XVI+399 p. New York, 1923 (6, 415-16, SARTON).

Seelye, Kate Chambers, see **abū-Manṣūr 'abd-al-Ḳāhir** (4, 63-64, SARTON).

Seemann, Hugo J. Die Instrumente der Sternwarte zu Marāgha nach den Mitteilungen von AL-'URḌĪ. Sonderabdruck aus den Sitzungsberichten der physikalisch-medizinischen Sozietät zu Erlangen, 60, 16-126, 1928 (13, 111-13, SARTON).

* — EILHARD WIEDEMANN (geb. 1. August 1852-gest. 7. Januar 1928). 14, 166-86, 1 pl., 1930.

Shapley, Harlow; Howarth, Helen E. A source book in astronomy. XVI+412 p., ills. New York, 1929 (13, 130-34, SARTON).

Sharp, J. Alfred. DAVID LIVINGSTONE, missionary and explorer. 239 p., 2 ill. London, 1920 (4, 521, SARTON).

Shearer, Augustus Hunt, see **Dutcher, George Matthew** (17, 453-64, MAYER).

Shipman, Henry Robinson, see **Dutcher, George Matthew** (17, 453-64, MAYER).

Shotwell, James T. An introduction to the history of history. XII+339 p., 1 pl. (Records of civilization). New York, 1922 (5, 174-76, SARTON).

(**Shunjō Hōin**, fl. at the beginning of XIVth cent.). HŌNEN, the Buddhist saint. His life and teaching. Compiled by imperial order. Translation, historical introduction, explanatory and critical notes by HARPER HAVELOCK COATES and RYUGAKU ISHIZUKA. XCIV+960 p., pl. Kyōto, 1925 (9, 365-67, SARTON).

Siegel, Carl. Geschichte der deutschen Naturphilosophie. XV+390 p. Leipzig, 1913 (1, 287-89, E. BLOCH).

Sigerist, Henry E. Studien und Texte zur frühmittelalterlichen Rezeptliteratur. VIII+220 p. (Studien zur Geschichte der Medizin, H. 13). Leipzig, 1923 (6, 429-30, SARTON).

— See **Haller, Albrecht v.**

* **Simons, Lao G.** The influence of French mathematicians at the end of the eighteenth century upon the teaching of mathematics in American colleges. 15, 104-23, 1931.

Sinclair, Joseph H. The conquest of Peru as recorded by a member of the PIZARRO expedition. Reproduced from the copy of the Seville edition of 1534 in the New York Public Library. With a translation and annotations by JOSEPH H. SINCLAIR. 47 p., 2 maps. New York, 1929 (14, 244-50, POGO).

* **Singer, Charles.** DANIEL OF MORLEY, an English philosopher of the XIIth century. 3, 263-69, 1920.

— Early English magic and medicine. 34 p., 12 fig. (Proceedings of the British Academy, IX). London, 1920 (3, 435-37, 1 fig., SARTON).

— (ed). Studies in the history and method of science. Vol. 2, XXII+559 p., 55 pl., ills. Oxford, 1921 (4, 380-82, SARTON).

— The discovery of the circulation of the blood. X+80 p., 8 pl. (Classics of scientific method). London, 1922 (5, 194-96, SARTON).

— The evolution of anatomy: a short history of anatomical and

physiological discovery to HARVEY: being the substance of the Fitzpatrick lectures delivered at the Royal College of Physicians of London in the years 1923 and 1924. XII+209 p., 22 pl., 117 fig. London, 1925 (10, 521-24, LEAKE).

— The herbal in antiquity. *Journal of Hellenic Studies*, 47, 52 p., 10 pl., 46 fig. London, 1927 (10, 519-21, SARTON).

—, see **Ketham, Joannes de** (6, 547-49, SARTON).

Singer, Dorothea Waley; Anderson, Annie. Catalogue of Latin and vernacular alchemical manuscripts in Great Britain and Ireland, dating from before the XVIth century. Vol. 1, XXIII+326 p., 1 pl. Brussels, 1928 (12, 168-69, SARTON).

* — MICHAEL SCOT and alchemy. 13, 5-15, 1929.

Sirkar, Kishori Lal. An introduction to the Hindu system of physics, being an exposition of Kanad-Sūtras relating to the subject published by B. K. SARKAR. VII+108 p. Calcutta, 1911 (3, 64-65, MASSON-OURSEL).

Sitter, Willem de. Kosmos. A course of six lectures on the development of our insight into the structure of the universe delivered for the Lowell Institute in Boston, November 1931. VIII+138 p., 7 port., 3 pl. Cambridge, Mass., 1932 (20, 316-18, BOBROVNIKOFF).

* **Smith, David Eugene.** The geometry of the Hindus. 1, 197-204, 1913.

—; **Mikami, Yoshio.** A history of Japanese mathematics. V+288 p. Chicago, 1914 (2, 410-13, ARNOLD REYMOND).

* — The first printed arithmetic (Treviso, 1478). 6, 311-31, 1 pl., 1924.

— History of mathematics. 2 vols. Boston, 1923-25 (6, 440-44; 8, 221-25, SARTON).

* — The first great commercial arithmetic (Venice, 1484). 8, 41-49, 1926.

— Le comput manuel de Magister ANIANUS. 107 p., 32 ills. (Docu-

ments scientifiques du XVe siècle, 4). Paris, 1928 (11, 385-87, SARTON).

— A source book in mathematics. XVII+701 p. 9 pl., figs. New York, 1929 (14, 268-70, SARTON).

Smith, Edgar Fahs (1854-1928). Old chemistries. XI+89 p., 31 pl. New York, 1927 (9, 479-80, SARTON).

Smith, Sir **Frederick.** The early history of veterinary literature and its British development. Vol. 1, IV+373 p., 27 fig. London, 1919 (3, 307, C. SINGER).

Smith, Grafton Elliot. Elephants and ethnologists. Woodcuts by A. HORACE GERRARD and K. LEIGH-PEMBERTON. New York, 1924 (8, 215-17, FOLLIN).

— The evolution of man. Essays. VIII+159 p. New York, 1924 (7, 149-52, SARTON).

Sobhy, G. P. G., see **al-Ghāfiqī, Aḥmad ibn Muḥammad** (20, 454-57, SARTON).

Spallanzani ; Needham ; Buffon. Saggio di osservazioni microscopiche concernenti il sistema della generazione dei Signori di NEEDHAM e BUFFON. Préface et notes de GINO DE' ROSSI. (Classici delle scienze et della filosofia). 142 p. Bari, 1914 (2, 209-13, GEORGES-BERTHIER).

Spence, Lewis. An introduction to mythology. 335 p. London. 1921 (4, 378-80, SARTON).

Spengler, Oswald. Der Untergang des Abendlandes. Umrisse einer Morphologie der Weltgeschichte. Erster Band : Gestalt und Wirklichkeit. Zweiter Bd. : Welthistorische Perspektiven. 635 p. München, 1922 (5, 176-81, RUSKA).

Sperling, Otto (1602-1681). Studienjahre. Nach dem Manuskript der Kgl. Bibliothek zu Kopenhagen hrsg. v. WALTER G. BRIEGER und JOHN W. S. JOHNSSON. 133 p. Kopenhagen, 1920 (4, 54, SARTON).

Speyer, Jakob Samuel (1849-1913). Die indische Theosophie. VIII+336 p. Leipzig, 1914 (4, 61, MASSON-OURSEL).

Stace, Walter Terence. The theory of knowledge and existence. XII+455 p. Oxford, 1932 (20, 485-88, H. T. DAVIS).

Stapleton, H. E.; Azo, R. F.; Ḥusain, M. Hidāyat. Chemistry in 'Iraq and Persia in the tenth century A.D. Memoirs of the Asiatic Society of Bengal 8, 317-418, Calcutta, 1927 (11, 129-34, SARTON).

* **Steele, Robert.** Practical chemistry in the twelfth century, RASIS De aluminibus et salibus. Translated by GERARD OF CREMONA. 12, 10-46, 1929.

* — ROGER BACON as professor. A student's notes. 20, 53-71, 1933.

Steensby, Hans Peder (1875-1920). The Norsemen's route from Greenland to Wineland. 109 p,. ills., 3 maps. Copenhagen, 1918 (4, 48, SARTON).

Steier, August. ARISTOTELES und PLINIUS. Studien zur Geschichte der Zoologie. IV+305 p. Würzburg, 1913 (2, 202-03, E. S. RUSSELL).

Steinmetz, Sebald Rudolf. Essai d'une bibliographie systématique de l'ethnologie jusqu'à l'année 1911. IV+196 p. (Monographies bibliographiques publiées par l' "Intermédiaire sociologique", no. 1). Bruxelles, 1913 (1, 133-35, SARTON).

Stéphanidès, Michel. *Συμβολαὶ εἰς τὴν ἱστορίαν τῶν φυσικῶν ἐπιστημῶν καὶ ἰδίως τῆς χυμείας.* 237 p. Athens 1914 (3, 430-33, SARTON).

* — La terminologie des anciens. 7, 468-77, 1925.

* **Stephenson, John** (1871-1933). The classification of the sciences according to NASIRUDDIN TUSI. 5, 329-38, 1923.

* — The zoological section of the Nuzhatu-l-Qulūb. (A Persian compendium of science, 1340 A.D.). 11, 285-315, 1928.

* **Stevens, Neil Everett.** The mycological work of HENRY W. RAVENEL. 18, 133-49, 1 pl., 1932.

Stevenson, Edward Luther. Terrestrial and celestial globes. Their

history and construction including a consideration. of their value as aids in the study of geography and astronomy. 2 vols. (Publications of the Hispanic Society of America, no. 86). New Haven, 1921 (4, 549-53, SARTON).

—, see **Ptolemy** (20, 270-74, SARTON).

Stillman, Clara Gruening. SAMUEL BUTLER, a mid-Victorian modern. XI+319 p., 6 pl. New York, 1932 (20, 294-96, KOFOID).

Stillman, John Maxson (1852-1923). The story of early chemistry. 566 p. New York, 1924 (7, 511-14, T. L. DAVIS).

Stillwell, Margaret Bingham. Incunabula and Americana, 1450-1800. A key to bibliographical study. XVIII+483 p. New York, 1931 (16, 178-81, SARTON).

* **Stimson, Dorothy.** "Ballad of Gresham Colledge." 18, 103-17, 1932.

Stoddard, Lothrop. The new world of Islam. VIII+362 p., map. New York, 1921 (4, 538, MACDONALD).

Stone, Eric. Medicine among the American Indians. XV+139 p., 17 ills. (Clio Medica series). New York, 1932 (19, 247-48, LEAKE).

Stone, Gilbert. A history of labour. 416 p. London, 1921 (4, 385-86, SARTON).

* **Stones, G. B.** The atomic view of matter in the XVth, XVIth, and XVIIth centuries. 10, 444-65, 1928.

(Stromayr, Caspar). Die Handschrift des Schnitt- und Augenarztes CASPAR STROMAYR in Lindau am Bodensee. The Lindau Ms. (P. I. 46), dated July 4, 1559; with an historical introduction and evaluation by WALTER VON BRUNN. 364 p. Berlin, 1925 (9, 367-70, D'IRSAY).

* **Struik, D. J.** Outline of a history of differential geometry. 19, 92-120, 1933; 20, 161-91, 1933.

—, see **Struik, Ruth.**

* **Struik, Ruth** and **D. J.** CAUCHY and BOLZANO in Prague. 11, 364-66, 1928.

Strutt, Robert John. The life of JOHN WILLIAM STRUTT, third Baron RAYLEIGH, O. M., sometime president of the Royal Society and chancellor of the University of Cambridge. ports. London, 1924 (8, 177-81, N. R. CAMPBELL).

(**Struve, W. W.**). Mathematischer Papyrus des Staatlichen Museums der Schönen Künste in Moskau, hrsg. und kommentiert. Unter Benutzung einer hieroglyphischen Transkription von B. A. TURAJEFF. 210 p., 10 pl. (Quell. u. Stud. z. Gesch. d. Math., 1). Berlin, 1930 (16, 148-55, ARCHIBALD).

Strzygowski, Josef. Altai-Iran und Völkerwanderung. Ziergeschichtliche Untersuchungen über den Eintritt der Wander- und Nordvölker in die Tribhäuser geistigen Lebens. XII+319 p., 229 fig., 10 pl. (Ax. 4. Arbeiten des Kunsthistorischen Instituts der k.k. Universität Wien, Lehrkanzel Strzygowski, 5). Leipzig, 1917 (8, 203-07, RUSKA).

Studer, Paul; **Evans, Joan.** Anglo-Norman lapidaries. XX+404 p. Paris, 1924 (9, 123-24, SARTON).

Sturt, Mary. FRANCIS BACON, a biography. XVI+246 p., 12 pl. New York, 1932 (20, 286-87, KOFOID).

Suali, Luigi. Introduzione allo studio della filosofia indiana. XVI+477 p. (Bibliotheca di filosofia e pedagogia, 7). Pavia, 1913 (1, 264-66, MASSON-OURSEL).

* — Essai sur la théorie de la connaissance dans la philosophie indienne. 3, 219-54, 1920.

Sudhoff, Karl. Graphische und typographische Erstlinge der Syphilisliteratur aus den Jahren 1495 und 1496, zusammengetragen und ins Licht gestellt (Alte Meister der Medizin und Naturkunde, in Facsimile-Ausgaben und Neudrucken. IV). X+28 p., 24 pl. München 1912 (1, 272, SARTON).

— Skizzen. 319 p., port. Leipzig, 1921 (4, 558-60, STREETER).

— Kurzer Handbuch der Geschichte der Medizin. Dritte u. vierte Auflage v. J. L. PAGELS Einführung in die Geschichte der Medizin (1898). VIII+534 p. Berlin, 1922 (5, 188, SARTON).

— The earliest printed literature on syphilis, being ten tractates from the years 1495-1498. In complete facsimile with an introduction and other accessory material, adapted by CHARLES SINGER. (Monumenta medica, 3). Florence, 1925 (8, 351-54, SARTON).

—, see **Ketham, Joannes de** (6, 547-49, SARTON); **Klebs, Arnold C.** (9, 430-33, SARTON); **Meyer-Steineg, Th.** (4, 368; 5, 188, SARTON); **Theophrast von Hohenheim** (6, 56-57, SARTON).

Suter, Heinrich (1848-1922). Die astronomischen Tafeln des MUḤAMMAD IBN MŪSĀ AL-KHWĀRIZMĪ in der Bearbeitung des MASLAMA IBN AḤMED AL-MADJRĪTĪ und der Latein. Uebersetzung des ATHELHARD VON BATH auf Grund der Vorarbeiten von A. BJÖRNBO u. R. BESTHORN hrsg. u. kommentiert (D. Kgl. Danske Vidensk. Selsk. Skrifter, 7. Raekke. III). XXXV+255 p. Köbenhavn, 1914 (4, 502-03, RUSKA).

Szczygiel, P. Paul. Das Buch Job, übersetzt und erklaert. VIII+258 p. Bonn, 1931 (18, 193-95, GANDZ).

* **Tallmadge, Guy K.** The third part of the De extractione of VALERIUS CORDUS. 7, 394-411, 1925.

Tanabe, Hisao. Lectures on Japanese music (in Japanese). Tokyo, 1919 (4, 77-81, MIKAMI).

Tannery, Paul (1843-1904). Pour l'histoire de la science hellène. De THALÉS à EMPÉDOCLE. Deuxième éd., par A. DIÈS, avec un préface de FR. ENRIQUES. XXII+436 p., 1 port. Paris, 1930 (15, 179-80, GUINET).

— Mémoires scientifiques. 11 vols. Toulouse, 1912-31 (1, 114-15, 509-12; 4, 338-41, 342-45; 6, 431-35; 9, 127-30, 472-76; 10, 92-94; 14, 426-30; 16, 155-57; 19, 515-16, SARTON).

—, see **Fermat** (1, 274, SARTON).

(Tantrik texts). Edited by ARTHUR AVALON. Vol. 3, Prapancha sara

tantra, edited by TARANATHA VICLYARATNA. 325 p. London, 1914 (3, 81, MASSON-OURSEL).

Taylor, Charles H., see **Haskins, Charles Homer** (14, 433-36, SARTON).

Taylor, Frederick Winslow. La direction des ateliers, étude suivie d'un mémoire sur l'Emploi des courroies, et d'une note sur l'Utilisation des ingénieurs diplômés. Préface de HENRY LE CHATELIER. *Revue de métallurgie*, 190 p., Paris, 1913 (1, 718, SARTON).

Taylor, Henry Osborn. Thought and expression in the XVIth century. 2 vols. New York, 1920 (4, 52-54, SARTON).

Teeple, John Edgar (1874-1931). Maya astronomy (Contributions to American Archaeology, no. 2). Reprint from publication no. 403, Carnegie Institution of Washington, 29-115, 19 fig., 1930 (16, 459-62, SARTON).

(**Telesio, Bernardino**, 1509-88). De rerum natura, a cura di VINCENZO SPAMPANATO (Filosofi Italiani, collezione promossa dalla Società Filosofica Italiana). Vol. 2, 328 p. Genova, 1913 (2, 206-08, MIELI).

Termier, Pierre (1859-1930). A la gloire de la terre, souvenirs d'un géologue. 427 p. Paris, 1922 (6, 95-96, GUINET).

(**Thābit ibn Qurra**, d. 901). The book of al-dakhīra. Edited by G. SOBHY. XVIII+44 p. in Eng., 192 p. in Arabic, 3 pl. Cairo, 1928 (13, 364-65, SARTON).

Thalamas, A. Etude bibliographique de la géographie d'ERATOSTHÈNE. 192 p. La géographie d'ERATOSTHÈNE. 256 p. Paris, 1921 (5, 422-26, GUINET).

(**Theophrast von Hohenheim**, gen. **Paracelsus**). Saemtliche Werke hrsg. v. KARL SUDHOFF und WILHELM MATTHIESSEN. 1. Abtlg. Die Medizinischen, naturwissenschaftlichen und naturphilosophischen Schriften, hrsg. v. KARL SUDHOFF, sechster Bd. Aus dem Jahre 1528 (Kolmar im Elsass). 198 p., 6 pl. München, 1922 (6, 56-57, SARTON).

Thomas-Stanford, Charles. Early editions of EUCLID's Elements. 64 p., 13 pl. London, 1926 (10, 59-60, ARCHIBALD).

Thompson, Holland. The age of invention. A chronicle of mechanical conquest. XII+267 p., 13 ills. New Haven, 1921 (4, 517-19, SARTON).

* **Thompson, James Westfall.** The introduction of Arabic science into Lorraine in the tenth century. 12, 184-93, 1929.

Thompson, Reginald Campbell. The Assyrian herbal. A monograph on the Assyrian vegetable drugs, the subject matter of which was communicated in a paper to the Royal Society, March 20, 1924. XXVII+294 p. London, 1924 (8, 506-08, SARTON).

Thoms, Herbert. Chapters in American obstetrics. X+90 p., 10 ills. Springfield, Ill., 1933 (20, 503-04, LEAKE).

Thomson, Sir John Arthur (1861-1933). The system of animate nature. 2 vols. (The Gifford lectures delivered in the University of St. Andrews in the years 1915 and 1916). London, 1920 (4, 82, SARTON).

* **Thomson, S. Harrison.** The text of GROSSETESTE's De cometis. 19, 19-25, 1933.

Thomson, William, see **Junge, Gustav** (16, 132-36, GANDZ).

Thorndike, Lynn. A history of magic and experimental science during the first thirteen centuries of our era. 2 vol. New York, 1923 (6, 74-89, SARTON).

* — L'encyclopédie and the history of science. 6, 361-86, 1924.

* — Another treatise by BARNABAS DE RIATINIS of Reggio. 8, 285-86, 1926.

* — The manuscript text of the Cyrurgia of LEONARD OF BERTIPAGLIA. 8, 264-84, 1926.

* — Measurement of mountain altitudes. (*Query* no. 7). 9, 425-26, 1927.

* — Some minor medical works of the Florentine Renaissance. 9, 29-43, 1927.

* — ANDALÒ DI NEGRO, PROFACIUS JUDAEUS, and the Alphonsine tables (*Query* no. 8). 10, 52-56, 1928.

* — The clocks of JACOPO and GIOVANNI DE' DONDI. 10, 360-62, 1928.

* — Tacuinum. (*Query* no. 10). 10, 489-90, 1928.

* — Of the cylinder called the horologe of travelers. 13, 51-52, 1929.

* — GIOVANNI DE' FONTANA. (*Answer* no. 3). 13, 103, 1929.

— Science and thought in the fifteenth century. Studies in the history of medicine and surgery, natural and mathematical science philosophy and politics. XII+387 p., 10 pl. New York, 1929 (14, 235-04, SARTON).

* — Vatican Latin manuscripts in the history of science and medicine. 13, 53-102, 1929.

* — GIOVANNI DE' FONTANA. (*Answer* no. 3.2). 14, 221-22, 1930.

* — Prospectus for a corpus of medieval scientific literature in Latin. 14, 368-84, 1930.

* — Seven salts of Hermes. 14, 187-88, 1930.

* — On the use of the word kardaja. (*Query* no. 14). 14, 420, 1930.

* — Prospectus for a corpus of medieval scientific literature in Latin. 16, 447, 1931.

* — An unidentified work by GIOVANNI DA' FONTANA : Liber de omnibus rebus naturalibus. 15, 31-46, 1931.

* — RUFINUS : a forgotten botanist of the thirteenth century. 18, 63-76, 1932.

* — GIOVANNI DA FONTANA again. 20, 335-36, 1934.

* — PIETRO RANZANO (d. 1492). (*Query* no. 36). 20, 444, 1934.

* — RUFINUS. 20, 445, 1934.

Tierie, G. CORNELIS DREBBEL (1572-1633). VII+124 p., ills. Amsterdam, 1932 (20, 285-86, T. L. DAVIS).

Tille, Armin. Weltgeschichte begründet von HANS F. HELMHOLT. Zweite Auflage. 3 vols. Leipzig, 1913-14 (1, 754-56; 2, 239-40, 428, SARTON).

(**Torricelli, Evangelista,** 1608-1647). Opere geometrica di EVANGELISTA TORRICELLI. Edite in occasione del III centenario della nascita col concorso del comune di Faenza, da GINO LORIA e GIUSEPPE VASSURA (3 tomes in 4 vol.). Faenza, 1919 (5, 151-54, SARTON).

Tracy, Henry Chester. American naturists. VIII+282 p. New York, 1931 (17, 445, KOFOID).

Tropfke, Johannes. Geschichte der Elementar-Mathematik in systematischer Darstellung mit besonderer Berücksichtigung der Fachwörter. Zweite Auflage. 3 vol. Berlin, 1921-22 (5, 182-86. WIELEITNER).

Tufail, see **Brönnle, P.**

* **Turner, Dorothy M.** The philosophical aspect of education in science. 9, 402-19, 1927.

* **Turrière, Emile.** La notion de transcendance géométrique chez DESCARTES et LEIBNIZ. L'interscendance leibnizienne et l'hypertranscendance. 2, 106-24, 1914.

* — Introduction à l'histoire de l'optique. Le développement de l'industrie verrière d'art depuis l'époque vénitienne jusqu'à la fondation des verreries d'optique. 7, 77-104, 1925.

Tweedie, Charles. A study of the life and writings of COLIN MACLAURIN. *Math. gaz.* 8, 133-51, 1915 (3, 289-90, JOURDAIN).

— JAMES STIRLING. A sketch of his life and works, along with his scientific correspondence. X+213 p. Oxford, 1922 (5, 429-32, CAJORI).

(**Ulūgh Beg.**, d. 1449). Catalogue of stars. Revised from all Persian manuscripts existing in Great Britain, with a vocabulary of Persian and Arabic words by EDWARD HALL KNOBEL. 109 p. Washington, 1917 (2, 413-15, SARTON).

Urbain, Georges. Les disciplines d'une science : la chimie. 325 p. Paris, 1921 (4, 545-48, GUINET).

—, see **Dejust** (13, 134-35, R. M. MAY).

Usāmah ibn-Munqidh (1095-1188). An Arab-Syrian gentleman and warrior in the period of the crusades. Memoirs of USĀMAH IBN-MUNQIDH (Kitāb al-i'tibār). Translated from the original manuscript by PHILIP K. HITTI. x+265 p., 4 ills. New York, 1929 (13, 365-68, SARTON).

— USĀMAH's memoirs entitled Kitāb al-I'tibār. Arabic text edited from the unique manuscript in the Escurial Library, Spain, by PHILIP K. HITTI. XLIII+240 p., 1 pl. (Princeton Oriental texts, 1). Princeton, 1930 (15, 341-42, THOMSON).

* **Vallisnieri, Antonio** (1661-1730). Observations on the fly of rosebushes and other insects of the same habitat. Translated by MAB BIGELOW and revised by R. P. BIGELOW. 17, 290-324, 4 pl., 1932.

* **Van Hée, L.** The Ch'ou-Jen Chuan of YÜAN YÜAN. 8, 103-18, 1926.

Vassura, Giuseppe, see **Torricelli, E.** (5, 151-54, SARTON).

Ver Eecke, Paul. Les œuvres complètes d'ARCHIMÈDE, traduites du grec en français, avec une introduction et des notes. LIX+553 p. Paris, 1921 (4, 499-500, GUINET).

Vera, Francisco. Historia de la matemática en España. I. Tempos primitivos hasta el siglo XIII. II. Los precursores del renacimiento siglos XIII, XIV, y XV. Madrid, 1929-31 (19, 232-33, ARCHIBALD).

Verga, Ettore (1867-1930). Raccolta Vinciana. Fascicolo XIII, 1926-1929. XXIV+299 p., 18 fig. (Supplemento al fasc. XIII Raccolta Vinciana, 13 p.). Milan, 1930 (15, 174, SARTON).

Verne, see **Dejust** (13, 134-35, R. M. MAY).

Vernes, Maurice. Histoire sociale des religions. I. Les religions occidentales dans leur rapport avec le progrès politique et social. 539 p. Paris, 1911 (1, 538-39, SARTON).

Vetter, Quido. Jak se počítalo a měřilo na úsvitě kultury. 141 p. (" Melantrich " v Praze. Lidová Universita. Svazek XV). (Wie gerechnet und gemessen wurde zur Zeit des kulturellen Erwachens.) Prague, 1926 (14, 449-50, R. STRUIK).

Vialleton, Louis. Morphologie générale ; membres et ceintures des vertébrés tétrapodes ; critique morphologique du transformisme. VIII+710 p., 270 fig. Paris, 1923 (6, 435-37, GUINET).

Viclyaratna, Taranatha, see **Tantrik texts** (3, 81, MASSON-OURSEL).

Vierendeel, Arthur. Esquisse d'une histoire de la technique, 2 vol. Bruxelles, 1921 (5, 486-87, GUINET).

Vietor, Agnes C. A woman's quest. The life of MARIE E. ZAKRZEWSKA. XX+514 p., 5 ill. New York, 1924 (7, 144, SARTON).

Viets, Henry R. A brief history of medicine in Massachusetts. XIV+194 p., 8 pl. Boston, 1930 (15, 388-91, KOFOID).

Villamil, Richard de. NEWTON : the man. Foreword by ALBERT EINSTEIN. VI+111 p. London, 1931 (19, 203-04, PELSENEER).

(Vinci, Leonardo da). Istituto di studi Vinciani in Roma, diretto da MARIO CERMENATI. Per il IV° centenario della morte di LEONARDO DA VINCI, II Maggio MCMXIX. XX+442 p., ills. Bergamo, 1919 (4, 48-49, SARTON).

Vogel, Kurt. Die Grundlage der ägyptischen Arithmetik in ihrem Zusammenhang mit der 2:n — Tabelle des Papyrus Rhind. VI+211 p. Munich, 1929 (14, 430-33, ARCHIBALD).

* **Vowles, Hugh P.** Early evolution of power engineering. 17, 412-20, 4 pl., 6 fig., 1932.

Waard, Cornelis de, see **Mersenne, M.** (20, 467-70, PELSENEER).

Waite, Arthur Edward. The secret doctrine in Israel, a study of

the Zohar and its connections. XVI+330 p. Boston, 1914 (3, 87, MASSON-OURSEL).

Waley, Arthur. Notes on Chinese alchemy (supplementary to JOHNSON's, A study of Chinese alchemy). Bulletin of the School of Oriental Studies, London Institution, 6, 1930 (17, 440-43, T. L. DAVIS).

* **Walker, Helen M.** The relations of PLANA and BRAVAIS to theory of correlation. 10, 466-84, 1928.

— Studies in the history of statistical method. With special reference to certain educational problems. VIII+229 p., 12 ills. Baltimore, 1929 (13, 382-83, SARTON).

Walker, M. E. M. Pioneers of public health. The story of some benefactors of the human race. With a foreword by Sir HUMPHRY ROLLESTON. XVI+270 p., 23 pl. New York, 1930 (16, 472-74, KOFOID).

Walsh, James J. Mediaeval medicine. XII+221 p. London, 1920 (3, 308-09, C. SINGER).

Walther, Johannes. GOETHE als Seher und Erforscher der Natur. Untersuchungen über GOETHES Stellung zu den Problemen der Natur. VIII+324 p., 15 pl. (Hrsg. im Namen d. Kaiserlich Leopoldinischen Deutschen Akademie d. Naturforscher zu Halle). Halle, 1930 (16, 143-45, SARTON).

Warthin, Alfred Scott. The physician of the dance of death. A historical study of the evolution of the dance of death mythus in art. XVI+142 p., frontispiece, 92 fig. New York, 1931 (17, 282, KOFOID).

* **Waters, Edwin G. R.** (1890-1931). A thirteenth century algorism in French verse. With introduction by L. C. KARPINSKI. 11, 45-84, 2 pl., 1928.

* — A fifteenth century French algorism from Liége. 12, 194-236, 2 pl., 1929.

Weaver, Sir Lawrence. Sir CHRISTOPHER WREN. Scientist, scholar,

and architect. XVI+175 p., ills. London, 1923 (6, 416-19, SARTON).

Weaver, William D. Catalogue of the WHEELER gift of books, pamphlets and periodicals in the Library of the American Institute of Electrical Engineers. With introduction, descriptive and critical notes by Brother POTAMIAN. 2 vol. New York, 1909 (6, 104-07, SARTON).

* **Webb, R. S.** Aberration of light. 18, 438, 1933.

Weiss, Harry B.; Ziegler, Grace M. THOMAS SAY: early American naturalist. Foreword by L. O. HOWARD. XVI+260 p., 27 ills. Springfield, Ill., 1931 (16, 145-46, LEAKE).

Weiss, Paul, see **Peirce, Charles Sanders** (19, 220-29, QUINE).

* **Welborn, Mary Catherine.** Lotharingia as a center of Arabic and scientific influence in the eleventh century. 16, 188-99, 1931.

* — The errors of the doctors according to Friar ROGER BACON of the Minor Order. 18, 26-62, 1932.

* — Ghubār numerals. 17, 260-63, 1932.

Werner, Johannes (1468-1528). De triangulis sphaericis, libri quatuor, De meteoroscopiis, libri sex cum proemio Georgii Ioachimi Rhetici. II. De meteoroscopiis, hrsg. von JOSEPH WÜRSCHMIDT. 260 p. (Abhandlungen z. Gesch. d. math. Wiss. mit Einschluss ihrer Anwendungen, H. 24, 2). Leipzig, 1913 (2, 205, SARTON).

Wesendonk, O. G. von. Urmensch und Seele in der iranischen Ueberlieferung. Ein Beitrag zur Religionsgeschichte des Hellenismus. 213 p. Hannover, 1924 (8, 207-09, RUSKA).

Wessels, C. (S.J.) Early Jesuit travellers in Central Asia: 1603-1721. XVI+344 p., map, ills. The Hague, 1924 (7, 129-32, WRIGHT).

Westaway, Frederick William. Scientific method. Its philosophy and its practice. New edition. XXIV+426 p.; Science and theology. Their common aims and methods. XIV+346 p. London, 1919-1920 (4, 119-22, SARTON).

Wetham, Catherine Durning, see **Whetham, William Cecil Dampier** (1, 125-32, SARTON).

Weyrauch, Robert. Die Technik, ihr Wesen und ihre Beziehungen zu anderen Lebensgebieten. x+280 p., 2 pl. Stuttgart, 1922 (5, 487-88, v. KLINCKOWSTROEM).

Wheeler, William Morton. Social life among the insects. 375 p., 116 figs. New York, 1923 (6, 378-80, R. M. MAY).

—, see **Réaumur, René Antoine Ferchault de** (9, 445-47, SARTON).

Whetham, William Cecil Dampier; Whetham, Catherine Durning. Science and the human mind. A critical and historical account of the development of natural knowledge. 304 p. London, 1912 (1, 125-32, SARTON).

* — Three English men of science. 1, 215-18, 1913.

— See also **Dampier-Whetham, W. C.**

Whetzel, Herbert Hice. An outline of the history of phytopathology. 130 p., 22 port. Philadelphia, 1918 (5, 461-64, SARTON).

Whitehead, Alfred North; Russell, Bertrand. Principia mathematica. 3 vols., second ed. Cambridge, 1925-27 (8, 226-31, SHEFFER; 10, 513-19, LANGFORD).

Whittaker, E. T. A history of the theories of aether and electricity. 470 p. Dublin, 1910 (2, 222-24, SILVIO MAGRINI).

Wiborg, Frank Bestow (ed.). Printing ink. A history. With a treatise on modern methods of manufacture and use. xx+299 p., 10 ills. New York, 1926 (9, 134-38, SARTON).

Wieleitner, Heinrich (1874-1931). Geschichte der Mathematik, II. Tl., II. Hälfte. vi+220 p. (Sammlung Schubert, 64). Berlin, 1921 (4, 109, D. E. SMITH).

* — Zur Geschichte der gebrochenen Exponenten. 6, 509-20, 1924.

* — Zur Frühgeschichte der Räume von mehr als drei Dimensionen. 7, 486-89, 1925.

* — Geschichte der gebrochenen Exponenten. (Zusatz zu meinem Aufsatz, *Isis*, 6, 509). 7, 490-91, 1925.

* — War die Wissenschaft der alten Aegypter wirklich nur praktisch? 9, 11-28, 1927.

Wilhelm, Richard. Die Religion und Philosophie Chinas (Originalurkunden). (Uebersetzung und Herausgabe in Tsingtsu). Jena (1, 117-20, MASSON-OURSEL).

Williams, Francis Edgar. Orokaiva magic. With a foreword by R. R. MARETT. XII+231 p., 9 ills. Oxford, 1928 (11, 401-03. SARTON).

Wilson, Edmund Beecher. The cell in development and heredity. 3rd edition. 1232 p., 529 fig. New York, 1925 (8, 213-15, R. M. MAY).

Windisch, Ernst (1844-1918). Geschichte der Sanskrit-Philologie und indischen Altertumskunde, 1 Teil. (Grundriss d. indo-arischen Philol. u. Altertumskunde, 1 Bd., 1 H. B). 208 p. Strassburg, 1917 (4, 61, MASSON-OURSEL).

* **Windred, G.** The relation between pure and applied electrical theory: with special reference to mathematical methods. 18, 184-90, 1932.

* — The history of mathematical time. 19, 121-53, 1933; 20, 192-219, 1933.

Wingate, S. D. The mediaeval Latin versions of the Aristotelian scientific corpus, with special reference to biological works. 136 p. London, 1931 (18, 202, KOFOID).

Winternitz, Moriz. Geschichte der indischen Literatur. 2 vols. Leipzig, 1908 et 1913 (4, 62, MASSON-OURSEL).

Wissler, Clark. The American Indian. An introduction to the anthropology of the New World. Second ed. XVI+474 p., 83 ills., 2 maps. New York, 1922 (9, 138-42, SARTON).

— The relation of nature to man in aboriginal America. XX+248 p., 51 ills. New York, 1926 (9, 138-42, SARTON).

Withington, E., see **Bacon, Roger** (13, 110-11, THORNDIKE).

Witz, Aimé. Traité théorique et pratique des moteurs à gaz, à essence et à pétrole. Cinquième édition. 2 vols. Paris, 1923 (6, 454-56, SARTON).

Wodlinger, Mark H. Bibliographical survey of vitamins, 1650-1930, with a section on patents. Compiled by ELLA M. SALMONSEN. Chicago, 1932 (20, 318, KOFOID).

Wohlwill, Emil (1835-1912). GALILEI und sein Kampf für die Copernikanische Lehre. 2 Bde. Aus dem Nachlass hrsg. Leipzig, 1909-1926 (9, 437-39, DINGLER).

Wolfson, Harry Austryn. CRESCAS' Critique of ARISTOTLE. Problems of ARISTOTLE's physics in Jewish and Arabic philosophy. XVI+759 p. (Harvard Semitic series, 6). Cambridge, 1929 (14, 240-44, SARTON).

Wong, K. Chimin; Lien-teh, Wu. History of Chinese medicine. Being a chronicle of medical happenings in China from ancient times to the present period. XVIII+706 p., frontispiece, 92 ills., map. Tientsin, n.d. (20, 480-82, SARTON).

Wood, Casey A. An introduction to the literature of vertebrate zoology, based chiefly on the titles in the Blacker Library of Zoology, the Emma Shearer Wood Library of Ornithology, the Bibliotheca Osleriana, and other libraries of McGill University, Montreal, Canada. XIX+643 p., frontispiece. Oxford, 1931 (18, 207, KOFOID).

Woods, James Haughton. The Yoga-system of PATAÑJALI. XLI+384 p. (Harvard Oriental series, 17). Cambridge, Mass., 1914 (4, 60, MASSON-OURSEL).

* **Wright, John Kirtland.** Notes on the knowledge of latitudes and longitudes in the Middle Ages. 5, 75-98, 3 fig., 1923.

— The geographical lore of the time of the crusades. A study in the history of medieval science and tradition in Western Europe. XXII+563 p., 12 ills. (Research series, no. 15). New York, 1925 (7, 495-98, SARTON).

— A plea for the history of geography. 8, 477-91, 1926.

Wright, Wilmer Cave. HIERONYMI FRACASTORII De contagione et contagiosis morbis et eorum curatione, libri III. Translation and notes. LVII+356 p., 2 pl. (History of medicine series, 11). New York, 1930 (16, 138-41, LEAKE).

* **Wu, Lu-Ch'iang; Davis, Tenney L.** An ancient Chinese treatise on alchemy entitled Ts'an T'ung Ch'i. Written by WEI PO-YANG about 142 A.D., now translated from the Chinese into English by LU-CH'IANG WU. With an introduction and notes by TENNEY L. DAVIS. 18, 210-89, 4 pl., 1932.

Würschmidt, Joseph, see **Werner, Johannes** (2, 205, SARTON).

* **Yamamoto, Issei.** Japanese astronomy in past and present. Lecture delivered on July 24, 1931 at Kyoto. 17, 425-27, 1932.

* **Yeldham, Florence A.** The alleged early English version of EUCLID, 9, 234-38, 1927.

Zeitlinger, Heinrich. Bibliotheca Chemico-mathematica. Catalogue of works in many tongues on exact and applied science. 2 vol. London, 1921 (4, 111-12, SARTON).

Zekī, Ṣāliḥ (d. 1921). Athār-i-Bāqiya, a history of Arabic mathematics. 2 vols. Istanbul, 1329 (1911) (in Turkish) (19, 506-15, A. ADNAN).

Zeuthen, Hieronymus Georg (1839-1920). Die Mathematik im Altertum und im Mittelalter. 95 p. Leipzig, 1912 (1, 719-21, V. B.).

—, see **Tannery, Paul** (1, 114-15, 509-12; 4, 338-41; 9, 472-76; 16, 155-57; 19, 515-16, SARTON).

Ziegler, Grace M., see **Weiss, Harry B.** (16, 145-46, LEAKE).

Zimmer, John Todd. Catalogue of the EDWARD E. AYER ornithological library. 2 vol. Chicago, 1926 (10, 94-95, SARTON).

Zinner, Ernst. Verzeichnis der astronomischen Handschriften des deutschen Kulturgebietes. 544 p. München, 1925 (15, 193-95, SARTON).

* — Horologium viatorum. Anmerkungen zu den Mitteilungen von Herrn L. THORNDIKE in "*Isis*" 13, 51-93, 1929. 14, 385-87, 1930.

— Die Geschichte der Sternkunde. Von den ersten Anfängen bis zur Gegenwart. xi+673 p., 54 fig., 13 pl. Berlin, 1931 (16, 161-67, POGO).

* — Die Sternbilder der alten Aegypter. 16, 92-101, 1931.

Index to the Eighty-nine Reviewers

Adnan, A. : Zekî.
Anger, Carol Jane : Davis, H. T.
Arber, Agnes : Frere; Lones; Orta, G. da.
Archibald, Raymond Clare : Gillain; Harcourt; Loria (2); Struve; Thomas-Stanford; Vera; Vogel.
Berthier, see Georges-Berthier.
Bévenot, Hugh G. : Kubitschek; Kugler.
Bloch, Ernst : Brown, J. C.; Faerber; Fischer, E.; Gabius; Iltis; Kauffmann; Lepsius; Mach; Marquardt; Meyer; Ostwald (2); Schmidt; Siegel.
Bobrovnikoff, Nicholas Theodore : Halley; Kepler; MacPike; de Sitter.
Bouny-Tordeur, Vera : Zeuthen.
Boutroux, Pierre (1880-1922) : Cajori; Gerhardt.
Brunet, Pierre : Brunschvicg.
Cajori, Florian (1859-1930) : Karpinski; Tweedie.
Campbell, Norman R. : Strutt.
Chao, Yuen Ren : Chung Kuo jên ming ta tz'ŭ tien.
Child, J. M. : Boutroux; Dickson.
Corner, George W. : McMurrich.
Dannemann, Friedrich : Auerbach (3).
Davis, Harold Thayer : Burke; Carmichael; Keyser; Lenzen; Lovejoy; Mackaye; Mead; Northrop; Sarton; Stace.
Davis, Tenny L. : Fulton; Kittredge; Perkin; Stillman, J. M.; Tierie; Waley.
Dept, Gaston Gérard : Barnes.
Desch, Cecil Henry : Ashton.
Dingler, Hugo : Lasswitz ; Wohlwill.

Einarsson, Stefán : Hermannsson.
Engerrand, George C. : Beuchat; Exsteens; Hoernes; Kaiser.
Finkel, Joshua : Eisenstein.
Follin, M. D. : Smith, G. E.
Gandz, Solomon : Feldman; Junge and Thomson; Szczygiel.
Georges-Berthier, Aug. (1884-1914) : Bianchi ; Buffon ; Kühner ; Morgagni; Spallanzani.
Guinet, Léon : Achalme (2); Ambard; Andoyer; Anthony, R.; Apert (2); Bassi; Bergson; Besredka; Blaringhem (2); Bohn; Boll; Boubier; Bourgin; Boussinesq; Boutaric; Bouvier; Bréhier; Brunot; Busco; Charbonnier; Chauveau; Claparède; Coissac; Couchoud; Delacre; Diés; Doublet; Ferrière; Ferton; Frazer; Freud; Fuchs; García del Real; Germain; Goblot; Goguel; González Palencia; Grandmaison; Grasset (4); Guilleminot; Houssay; Lacroix; Lanessan; Laurent; Leclerc du Sablon; Legrand (3); Legros; Lespieau; Lévy; Mackenzie; Mager; Maire; Maxwell, Metchnikoff; Metzger (2); Montessus de Ballore (2); Morgan, J. de; Panayotatou; Patterson, T. S.; Pérès; Petronievics; Plattard; Potonniée; Poyer; Renard; Rey; Rignano; Robin; Rouff; Rougier; Sageret; Schiaparelli; Tannery; Termier; Thalamas; Urbain; Ver Eecke; Vialleton; Vierendeel.
Hamilton, Clarence H. : Pinot (2).
Haskins, Charles Homer : Sarton.
Hellman, C. Doris : Favre.
Hermannsson, Halldór : Gathorne-Hardy.
Holmyard, Eric J. : Ruska.
Hopkins, Arthur John : Graebe; Hammer-Jensen.
Ikehara, Shikao : Ogura.
d'Irsay, Stephen : Bloch; Brunn; Locy; Loewenstein; Neuburger; Nohl ; Stromayr.
Jourdain, Philip E. B. (1879-1919) : Cajori (2); Child, J. M.; Hill, M. J. M.; Hobson; Johnston; Jourdain (6); La Mettrie; Morgan, A. de; Russell; Sarton, Tweedie.
Karpinski, Louis Charles : Cajori; Loria; Mieli; Ruska.
Klinckowstroem, Carl Graf von : Dacqué (2); Dessoir; Feldhaus; Katalog d. Bibl. des Reichspatentamts; Lehmann; Neuburger; Neudeck; Weyrauch.
Koenig, (Frederick) Otto, jr. : Auerbach.
Kofoid, Charles Atwood : Almquist; Ayres; Bilikiewicz; Blanton; Carter; Celebration of Centennial of Lib. of Med. and Chir. Fac. of Maryland; Cole, F. J.; Disney, Hill and Baker; Drewitt; Eckstein; Essig; Galloway; Ginzburg; Holcomb; MacCallum; Osborn and

Warren; Peterson; Piney; Power; Stillman; Sturt; Tracy; Viets; Walker, M. E. M.; Warthin; Wingate; Wodlinger; Wood, C. A.
Kurland, Samuel : Cusa; Klibansky.
Langford, Cooper Harold : Whitehead and Russell.
Lattin, Harriet Pratt : Delatte.
Laufer, Berthold : Collier; Johnson, O. S.; Marzell.
Leake, Chauncey Depew : Campbell; Fulton; Jeanselme; Packard; Pusey; Singer, C.; Stone, E.; Thoms, H.; Weiss; Wright; Ziegler.
Lefrancq, J. : Jéquier.
Lenoir, Raymond : Lévy-Bruhl; Roback.
Lenzen, Victor F. : Bentley; Cox.
Libby, Walter : Brett; Dannemann; Mason; Osler.
Macdonald, Duncan Black : 'Abdu, Shaikh Muḥ.; André; Basile, G. B.; Bouyges ; Browne, E. G.; Fārābī, Abū Naṣr al-; Farmer; Frick; Gaudefroy-Demombynes (2); al-Ghazzālī; Goldziher; González Palencia; Michel; Miller; Abū Muḥ. 'Alī b. Hazim al Andalusī; Nykl; O'Leary; Pétrof; Razik; Sánchez Pérez; Stoddard.
Magrini, Silvio : Whittaker.
Mascart, Jean : Bensaude.
Masson-Oursel, Paul : Aristotle; Avalon; Barnett; Barth; Bhāndārkar; Bhartrihari; Brönnle; Carus (2); Collins; Cranmer-Byng; Eliot, Sir C. N. E.; Forke; Formichi; Giles; Jouveau-Dubreuil; Kapadia; Keith (2); Kennedy; Law; Macdonell; Moret; Nariman (2); Rāmānujācarya and Kaye; Rapson; Rāy; Ruska; Sarkar; Schroeder; Sirkar; Speyer; Suali; Tantrik texts; Viclyaratna; Waite; Wilhelm; Windisch; Winternitz; Woods, J. H.
May, Raoul M.: Chaine; Combes; Cowdry; Daudin; Dejust; Dujarric; Forel; Hall; Mendel; Osborn; Parat; Ramón y Cajal (2); de Saint-Rat; Urbain; Verne; Wheeler; Wilson, E. B.
Mayer, Joseph : Dutcher.
Metzger, Hélène : Allier ; Bachelard ; Brunet (2) ; Brunschvicg (3) ; Carré ; Cresson (2) ; Lenoir ; Leroy ; Lévy-Bruhl (4) ; Metz ; Meyerson (4).
Meyer, Adolf : Needham.
Meyerhof, Max : Deny; Kamal; Rif'at Pasha.
Mieli, Aldo : Ardigó; Enriques; Loria; Magrini; Papini; Pitoni; Telesio.
Mikami, Yoshio : Endō; Japan civilization society; Kanetsune; Mikami (2); Ōgata; Otsuki; Tanabe.
Pelseneer, Jean : Bayet; Gunther; Mersenne; Metzger; Nicolson; Pintard; Villamil; Waard, C. de.
Petit, Raymond : Plutarch.

Pogo, Alexander : Blokh; Bombelli; Bortolotti; Gonçal de Reparaz; Gunther; Neugebauer; Saussure; Saxl; Sinclair; Zinner.
Quine, Willard V. : Peirce; Weiss.
Rádl, Emanuel : Kohlbrugge.
Reymond, Arnold : Mikami; Smith, D. E.
Roback, Abraham Aaron : Baerwald; Gulat-Wellenburg & Klinckowstroem; Rosenbusch.
Robertson, D. S. : Royds.
Roncière, Charles de la : Roncière; Wright, J. K.
Rose, William J. : Birkenmajer.
Ruska, Julius : Baumstark; Becker; Carra de Vaux; Darmstaedter; Drews (3); Fester; Frank; Jensen; Karpinski; Keyserling; al-Khowarizmi; Lippmann; Löw; Maeterlinck; Meissner; Pfannmüller; Sanchez Pérez; Schmidt; Schultz; Schweinfurth; Spengler; Strzygowski; Suter; Wesendonk.
Russell, E. S. : Steier.
Sapin, L. : Marguet.
Sarton, George : passim.
Sheffer, Henry Maurice : Bergson; Cassirer; Dingler (2); Elsbach; Enriques; Whitehead and Russell.
Singer, Charles : Dubreuil-Chambardel; Harvey-Gibson; Little, A. G.; Smith, Sir F.; Walsh, J. J.
Smith, David Eugene : Mikami; Wieleitner.
Streeter, Edward Clark : Allbutt; Neuburger; Streeter.
Struik, Ruth : Bolzano; Rjchlík; Vetter.
Thomson, William : Gandz; Hitti; Mishnat ha-middot; Usāmah b. Munqidh.
Thorndike, Lynn : Bacon; Cutler; Hearnshaw; Kittredge; Lexa; Little, A. G.; Millàs Vallicrosa; Müller; Rudwin; Withington.
Transehe, Nikolai : Berg.
Turrière, Emile : Boutroux; Brunschvicg; Laurent.
Viets, Henry R. : Major.
Welborn, Mary Catherine : Hoops; Larsen.
Wieleitner, Heinrich (1874-1931) : Adickes; Dijksterhuis; Gerlach; Hölder; Klein; Olschki (2); Ostwald; Tropfke.
Wolf, Ernst : Dohrn; Helmholtz.
Wright, John Kirtland : Ciarcià, S.; Eckert; Heawood; Martonne; Nunn; Parks; Polo, M.; Roncière; Wessels.

Index of Authors to Volumes XIX, XX and XXI

Indices to *Isis* have appeared in Vol. I and in subsequent volumes of which the ordinal number is divisible by three. We would advise readers to put some mark (*e.g.* the word index) on the backs of the volume containing an index.

Special pains have been taken to include in this index, as in the previous one, the names of every person about whom some information may be found. Casual references have been omitted. LÉON GUINET.

Aagaard, B., XXI, 411.
Abadie, A., XXI, 467.
Abb, G., XIX, 274.
al-Abbār, ibn, XIX, 387.
Abbo of Fleury, XIX, 186, 187, 191.
Abbott, M. E., XXI, 468.
'Abd al-Raḥmān al-Ṣūfī, XXI, 353.
'Abdallāh Muḥ. ibn 'Abbād, abū, XXI, 366.
'Abdallāh b. at-Ṭajjib, XIX, 290.
Abenarabi, see 'Arabī, ibn.
Abenbéder, see Bakr ibn Badr, abū.
Abenházam, see Ḥazm, ibn.
Abercrombie, A., XXI, 468.
al-Abharī, XXI, 362.
Abraham, XXI, 320 ff.
Abraham bar Ḥiyya, XIX, 211, 232, 385 f., 531, 532.
Abraham ibn Ezra, XIX, 527; XX, 275; XXI, 355, 356, 357.
Abraham, H., XXI, 330.
Abraham, J. J., XIX, 503; XXI, 386.
Abrahams, I., XIX, 579.
Abū, see next word of name.
Abuali, XXI, 28.
Abulbagesar, XXI, 33.
Abuzalem, XXI, 28, 36.
Achalme, P. J., XXI, 504.
Achard, XXI, 561.
Acharya, P. K., XX, 521.
Achelis, J. D., XIX, 536.
Achille-Delmas, F., XX, 605.
Achillini, A., XXI, 369.
Achmet, XXI, 351.
Ackerknecht, E. H., XIX, 408.
Acosta, J. de, XIX, 451.
Acres, R. d', XXI, 504.
Adam, J., XXI, 146.
Adami, J. G., XXI, 393.
Adami, M., XXI, 393.
Adams, C. C., XIX, 461.
Adams, C. W., XIX, 258, 264, 534; XXI, 505.
Adams, F. D., XXI, 402.
Adams, J., XIX, 548.

Adams, J. C., XIX, 590.
Addi, XIX, 531.
Addis, R., XIX, 422.
Adelard of Bath, XXI, 602.
Adelbold de Liège, XIX, 187, 194.
Adelmann, H. B., XXI, 374.
Adickes, E., XXI, 505.
Adils, J., XIX, 240.
Adnan, A., XIX, 506-15.
Aegerter, E., XIX, 257.
Aga-Oglu, M., XX, 523.
Agassiz, L., XXI, 392.
Agatharcos, XX, 25.
Agathodaemon, XX, 269, 272, 274.
Agostini, A., XIX, 523.
Agramente, A., XIX, 247.
Agricola, G., XX, 527; XXI, 206, 505.
Agrippa, H. C., XIX, 28, 31, 32, 33, 36, 38, 40, 57.
Aḥmad ibn al-Khalīl, XIX, 389.
Aḥmad, Maqbūl, XXI, 505.
Aḥmad i. al-Motsana i. Abdū-l-Karim, XIX, 527.
Aḥmad i. Muḥ. i. 'Aṭa'allāh al-Shādhilī, XXI, 366.
Aḥmad i. 'Omar al-Karābīsī, XIX, 429, 584.
Aiguillon, F. d', XIX, 94.
Ailly, P. d', XIX, 392; XXI, 161.
Airy, G. B., XX, 216.
Aischylos, XX, 25.
Aiyangar, S. K., XIX, 570.
Akhenaten, XXI, 312.
Alā ad-Daulas, XXI, 16.
Alā de Maara, Abou'l, XXI, 354.
Albandinus, XXI, 146.
Albers, J. F. H., XX, 562.
Alberti, L. B., XXI, 282.
Albertus de Brudzewo, XIX, 365, 367, 378; XXI, 368.
Albertus Magnus, XIX, 389, 390, 534; XX, 523; XXI, 146, 206, 363.
Albinus, B. S., XIX, 400.
Albright, W. F., XIX, 423, 579.
Alcmaeon of Croton, XX, 508.
Aldobrandino of Siena, XIX, 532 f.
Alembert, J. d', XIX, 105, 125, 372, 373, 374, 401; XX, 264 f., 542; XXI, 380.
Alembroth, XIX, 440.
Alessandro della spina, XXI, 227, 362.
Alexander, E. H., XIX, 258, 263, 505.
Alexander, S., XIX, 454.
Alexander the Great, XXI, 343.
Alexius Ist, XIX, 386.
Alfonso X el Sabio, XIX, 259; XXI, 362, 363, 587.
Alfonsus Vargas Toletanus, XIX, 390.
Alfred (king), XX, 518.
Alfred of Sareshel, XIX, 388; XXI, 18.
Alfredus Anglicus, see Alfred of Sareshel.
Alhandreus, XXI, 146.
Alhazen, see Haiṭham, ibn.
'Alī ibn 'Abbās, XXI, 353.
'Alī ibn I'sā, XX, 312; XXI, 594.
'Alī ibn Khalaf of Toledo, XIX, 528.
'Alī i. Jalaf, XIX, 385.
'Alī i. Rabban al-Ṭabarī, XIX, 526.
'Alī, Zakī, XIX, 289, 582.
Alibert, J. L., XX, 505.
Allbutt, T. C., XXI, 505.
Allen, E. T., XIX, 275.
Allen, H. E., XIX, 423.
Allen, W. E. T., XX, 608.
Alliaume, M., XIX, 277.

Allier, R., XXI, 505.
Allison, W. H., XIX, 308, 460; XXI, 505.
Allotte de La Fuije, XX, 22; XXI, 418.
Almagia, R., XIX, 499; XXI, 284, 368.
Almeida e Vasconcellos, F. de, XIX, 588; XX, 574.
Almonaster y Rojas, A., XIX, 408.
Almquist, E. B., XIX, 442; XXI, 506.
Alos-Moner, R. d', XX, 525.
Alphandéry, P., XIX, 282.
Altfeld, E., XXI, 452.
Althusius, J., XX, 533.
Alviella, E. G. d', XXI, 11, 12.
Amaducci, P., XX, 544.
Amalric of Bena, XX, 463.
Amantea, B., XX, 611.
Amari, M., XIX, 583.
Ambard, L., XXI, 506.
Amenope, XXI, 306.
Amenotep IV, XXI, 312, 313.
Amīn, 'U. M., XIX, 201-03; XXI, 534.
Ammonias, son of Hermias, XXI, 349.
Amontos, G., XX, 248.
Ampère, A. M., XIX, 114, 115, 119, 406; XX, 167, 168, 170; XXI, 543.
Ananias, XIX, 383.
Ananta, XIX, 472.
Anaxagoras, XIX, 587; XX, 25; XXI, 569.
Anaxilaos of Larissa, XIX, 382.
Anaximandros, XXI, 225.
Anaximenes, XXI, 225.
Andalò di Negro, XXI, 146, 605.
Andel, M. A. van, XXI, 608, 609; XX, 610; XXI, 374.
Andernach, G. v., XXI, 375.
Anders, H. R. D., XIX, 71.
Anderson, A., XIX, 422; XXI, 506.
Anderson, R. L., XIX, 58.
Anderson, W., XX, 206.
Andler, C., XX, 570.
Andoyer, H., XXI, 506.
András, D. D., XXI, 467.
André, E., XIX, 439.
André, P. J., XXI, 506.
André, W., XIX, 403.
Andreas de Sommaria, XXI, 147.
Andrews, R. C., XIX, 414.
Andrews, T., XX, 258; XXI, 177.
Andry, N., XX, 498.
Anianus, XXI, 362, 597.
Anonymous, XXI, 147 f.
Anonymus Bernensis, XX, 521.
Anschütz-Kaempfe, H., XXI, 410.
Anstey, L. M., XX, 531.
al-Anṭāqī, XIX, 511.
Anthemios of Tralles, XX, 496.
Anthiaume, A., XXI, 506.
Anthony, R., XXI, 385, 391, 506.
Antigonos, XXI, 342.
Antiphon, XIX, 380.
Antuña, M. M., XXI, 362.
Antyllos of Alexandria, XXI, 346.
Anza, XX, 555.
Aomi-no Mabito Genkai, XXI, 350.
Aoust, L., XX, 183, 189.
Āpastamba, XIX, 286; XXI, 225.
Aperlo, G., XIX, 608; XX, 610.
Apert, E., XXI, 506.
Apian, P., XIX, 493; XX, 443, 444.
Apollinaris Verentinus, XIX, 369.
Apollonios of Citium, XXI, 342.
Apollonios of Perga, XIX, 93, 128, 158, 523; XX, 512.
Apollonios of Rhodos, XXI, 342, 344.
Apollonios of Tyane, XXI, 35, 342.

Appel, P., XIX, 275.
Appleyard, R., XXI, 398.
'Arabī, ibn, XIX, 86, 257, 291; XXI, 360, 507.
Arago, F., XX, 167.
Aramus, XXI, 34.
Arber, A., XXI, 506.
Archibald, R. C., XIX, 229-31, 232-33, 275, 314, 434, 531, 576, 588; XX, 19, 546, 564, 565, 566, 572, 592, 593; XXI, 226-27, 409, 447, 451, 507.
Archimedes, XIX, 93, 94, 128, 254, 523, 587; XX, 35, 441 f., 495, 512; XXI, 276, 344, 370, 563, 607.
Architas of Tarent, XIX, 189.
Ardigò, R., XXI, 507.
Aristarchos, XXI, 140.
Aristophanes of Byzance, XXI, 342.
Aristoteles, XIX, 32, 94, 131, 135, 142, 196, 242, 254, 523, 587; XX, 54 ff., 510, 511, 516; XXI, 16 ff., 50, 187, 341, 342, 343, 415, 507, 562, 590, 599, 613; and passim.
Armstrong, E. F., XIX, 275; XXI, 398.
Arnald of Villanova, XXI, 148.
Arndt, W., XIX, 600.
Arnim, A. von, XIX, 407.
Arnold, T. W., XIX, 583.
Arnoux, A., XXI, 468.
Aron, M., XX, 522.
Arrighi, G., XIX, 268.
Arrigo VII, XIX, 534.
Arsonval, A. d', XXI, 405.
Artelt, W., XIX, 311, 542; XX, 528.
Artemidoros, XXI, 348.
Artemidoros of Tarsos, XXI, 342.
Artesius, XX, 479.
Arthur, J. C., XXI, 121.
Arthus, G., XXI, 253.
Āryabhaṭa, XIX, 576; XXI, 507.
Āryabhaṭa II, XIX, 481.
Asbury, H., XXI, 492.
Aschner, B., XX, 529.
Asclepios Soter, XX, 514.
Ashburn, P. M., XIX, 246.
Ashton, T. S., XXI, 507.
Ashmole, XXI, 52 ff.
Ashur-nasir-pal, XXI, 8-13.
Asín, P. M., XIX, 257; XX, 519; XXI, 360, 366, 507.
Aśoka, XIX, 86; 20, 512.
Assche, J. van, XX, 531.
Assézat, J., XX, 264.
Aston, F. W., XXI, 410.
Astruc, J., XX, 504.
Astruc, P., XXI, 394.
Aśvaghoṣa, XXI, 537.
Atanasoff, D., XXI, 117, 118.
Atkinson, B. F. C., XIX, 418.
Atwell, G., XIX, 53.
Audebeau, B. C., XIX, 559.
Audubert, R., XIX, 437.
Auerbach, F., XXI, 507 f.
Aufrecht, T., XIX, 472.
Auger, P., XIX, 437.
Augustinus, St., XIX, 28, 38, 133, 134; XXI, 538.
Augustinus of Trent, XXI, 148.
Ault, J. P., XIX, 413, 414; XX, 300.
Aurelius, M. A., XXI, 595.
Austin, E., XIX, 446.
Austin, S. F., XXI, 391.
Avalon, A., XXI, 508.
Avenzoar, see Zuhr, ibn, XIX, 387.
Averdunk, H. v., XIX, 95, 541.
Averroes, see Rochd, ibn.
Avicenna, see Sīnā, ibn.
Avogadro, A., XX, 561.
Ayer, E. E., XXI, 614.
Ayres, C., XX, 298-300; XXI, 508.
Ayyar, R. B. L. K. A., XIX, 568.

Azaïs, (R.P.), XIX, 516-18; XXI, 508.
Azarquiel, see al-Zarqālī.
Azo, R. F., XXI, 508.
'Azrūn, ibn, XIX, 387.

B

Bab, J,. XIX, 449.
Babbage, C., XX, 173.
Babcock, W. H., XXI, 508.
Babinger, F., XX, 529.
Babinski, J., XX, 569.
Bach, J. S., XIX, 549.
Bachelard, G., XIX, 233-35; XXI, 443, 508.
Bachet, C. G. de Mériziac, XIX, 231.
Backelmans, W., XXI, 447.
Bacon, F., XIX, 55, 60, 61, 265; XX, 286-87, 340 ff., 535; XXI, 578, 601.
Bacon, R., XIX, 20 f., 391, 533, 534, 587; XX, 53-71, 496; XXI, 14, 25, 227, 508, 599, 610.
Bādarāyaṇa, XXI, 529.
Badelart, P. L. F., XXI, 468.
Badr al-din, XX, 524.
Baddeley, J. F., XXI, 509.
Bäcklund, A., XX, 184, 186.
Baedeker, K., XXI, 509.
Baer, K. E. v., XXI, 591.
Baerwald, R., XXI, 509.
Baeyer, A. von, XXI, 200, 400.
Baglivi, G., XIX, 608.
Bagrow, L., XIX, 486.
Baḥya ben Joseph, XXI, 356.
Bail (Dr.), XIX, 537.
Bailey, C., XXI, 509.
Bailey, M., XXI, 372.
Bailey, S. I., XIX, 296.
Bailly, J. S., XXI, 558.
Bainton, R. H., XIX, 537.
Baissette, G., XX, 509.
al-Baiṭār, ibn, XIX, 387; XX, 452, 456.
Bājja, ibn, XXI, 356.
Backcheios, XXI, 342.
Backer, J. N. L., XIX, 303, 601.
Backer, W. E. W., XX, 495-97; XXI, 509.
Bakker, C., XIX, 608.
Bakkouch, 'Abd al-'Azīz, XX, 280.
Bakr ibn Badr, abū, XIX, 534; XX, 524.
al-Bakrī, XX, 479.
Balch, T. W., XXI, 525.
Baldacci, A., XIX, 597.
Baldinger, XX, 553.
Baldino, M., XIX, 270.
Baldus de Tambenis, XXI, 149.
Bale, J., XXI, 52.
al-Balkhī, XXI, 352 f.
Ball, J., XXI, 411.
Ball, U. N., XIX, 568.
Ball, W. W. R., XIX, 510; XXI, 519.
Ballantius, XIX, 34.
Ballore, F. de Montessus de, XXI, 571.
Balsac, R. de, XXI, 368.
Balss, H., XXI, 460.
Bamboat, Z., XXI, 428.
Bandhāyana, XIX, 286.
Banerjee, G. N., XXI, 509.
Banières, XX, 369 ff.
Banks, J., XXI, 171.
al-Bannā', ibn, XIX, 511.
Bannerman, D. A., XIX, 600.
Barach, J. H., XIX, 608.
Barbarin. P., XIX, 435, 555; XX, 559.
Barbeau, M., XIX, 605.

Barbaro, D., XX, 527.
Barberinos, XIX, 441.
Barbillon, J., XIX, 455, 542.
Barbosa Sueiro, M. B., XXI, 462.
Barbour, J. M., XX, 529; XXI, 453.
Barclay, E. N., XXI, 401.
Bard, S., XX, 503.
Barger, G., XIX, 312, 459, 597.
Barhebraeus, see Faraj, abū-l.
Barion, H., XIX, 420.
Barlow, N., XIX, 407.
Barlow, R., XIX, 537; XXI, 370.
Barnabas de Riatinis, XXI, 604.
Barnes, E. W., XIX, 454.
Barnes, H. E., XXI, 509.
Barnes, W. H., XX, 337-43; XXI, 509.
Barnett, L. D., XXI, 509.
Barnickel, J. B., XIX, 540.
Barnikol, E., XXI, 345.
Baron, T., XIX, 332.
Barré, P., XX, 553.
Barreiro, P. A., XX, 550.
Barrington, D., XIX, 268.
Barrois, A., XXI, 418.
Barrow, I., XIX, 126-38, 154; XX, 194, 206; XXI, 522.
Barry, F., XXI, 509.
Bart, XX, 225, 242.
Barth, A., XXI, 509.
Bartholomaeus, XXI, 149.
Bartholomaeus of Salerno, XIX, 256.
Bartholomew the Englishman, XIX, 389.
Barton-Wright, E. C., XIX, 302.
Bartram, J., XXI, 218 ff.
Baschmakoff, A., XIX, 447.
Basile, G. B., XX, 464-467; XXI, 510.
Basley, L., XXI, 415.
Bassi, A., XXI, 510.
Baṭalyūsī, XXI, 356.
Bate, H., XX, 492, 523.
Bateson, W., XXI, 510.
al-Battānī, XIX, 508 f.; XXI, 35.
Battistini, M., XIX, 554.
Bauch, G., XIX, 365.
Baudrimont, A., XIX, 299.
Bauer, E., XXI, 451.
Bauer, L. A., XIX, 413; XX, 300, 567.
Bauerreiss, H., XIX, 256.
Baum, F., XX, 547.
Baumann, E. D., XIX, 560; XXI, 414.
Baumé, A., XIX, 235, 349; XX, 415 f.
Baumgartner, L., XIX, 393.
Baumstark, A., XXI, 435, 510.
Baur, L., XIX, 19 ff.
Baux, P., XXI, 383.
Bayet, A., XIX, 241-45; XXI, 510.
Bayle, P., XIX, 398 f.; XX, 483.
Baynes, C. F., XIX, 427.
Bazy, P., XIX, 557.
Bazin, A. P. E., XX, 505.
Beale, E. F., XXI, 402.
Beaumesnil, P., XIX, 404.
Beaumont, W., XIX, 346; XX, 563.
Beaune, Fl. de, XIX, 364.
Beaunis, H., XIX, 411.
Beauvais, R. de, XXI, 407.
Béchamp, J. A. B., XXI, 404 f.
Beck, G., XX, 206.
Beck, H. C., XIX, 305.
Beck, J., XIX, 196.
Becker, C. H., XXI, 510.
Becker, C. L., XX, 545.
Becker, C. O., XIX, 549.
Becker, E. T., XIX, 306.
Becker, F., XIX, 555.
Becker, O., XX, 510; XXI, 342.

Bède, XIX, 435.
Bedeau, F., XIX, 437.
Beeckman, A., XXI, 268, 270.
Beeckman, I., XX, 533; XXI, 241, 263, 268, 271.
Beer, A., XIX, 504-06; XXI, 350, 510.
Beeson, B. B., XXI, 386.
Beiris, G. C., XX, 551, 558.
Belaiew, N. T., XXI, 418.
Beldomandi, P. de, XXI, 562.
Belehradek, XX, 239, 245.
Bell, A. H., XIX, 307.
Bell, C., XIX, 285.
Bell, H. J., XXI, 423.
Bellavitis, G., XIX, 155, 173, 174-75, 177, 179; XXI, 388.
Bellot, A., XIX, 556.
en Bellsham, E. G., XIX, 535.
Belot, G., XIX, 415.
Beltrami, E., XX, 178 ff.
Belvalkar, S. K., XIX, 568.
Benassi, E., XX, 543, 552.
Bénazet, A., XXI, 427.
Benedetti, J. B., XXI, 274, 276.
Benedetto, L. F., XIX, 534; XXI, 581.
Benedetto, R., XX, 445.
Benevenetus Grassus, XIX, 257, 531; XXI, 510.
Benivieni, A., XIX, 455.
Benjamin de Tudèle, XX, 522.
Bensaude, J., XXI, 510.
Bentley, A F., XX, 491-92; XXI, 510.
Bentwich, N., XIX, 579; XXI, 346.
Bercher, L., XIX, 583.
Berengario, J., XIX, 394, 446, 455; XXI, 57-70.
Berg, L. S., XXI, 510.
Berghoff, E., XX, 538.
Bergmann, H., XX, 555; XXI, 511.
Bergson, H., XIX, 240; XX, 213, 230; XXI, 409, 511.
Bergsträsser, G., XIX, 380, 384; XX, 516; XXI, 435.
Berkeley, G., XIX, 123, 124, 125, 140; XX, 546.
Berl, E., XXI, 390.
Berliner, A., XX, 573.
Bernacchi, L. C., XXI, 411.
Bernard, C., XX, 221.
Bernard, L., XX, 509.
Bernard Tornius, XXI, 149, 162.
Bernard de Verdun, XXI, 149.
Bernardin de St. Pierre, XIX, 270.
Bernardini, I., XX, 544.
Bernardus de Waging, XX, 458.
Bernelinus, XIX, 193.
Bernhard, H., XIX, 272.
Bernoulli, D. Ist, XIX, 102; XX, 78, 121, 150, 151, 158.
Bernoulli, Ja. Ist, XIX, 97, 98; XX, 82, 149.
Bernoulli, Jean Ist, XIX, 97, 98; XX, 156, 546; XXI, 383.
Bernoulli, Jean II, XIX, 102; XX, 369, 374.
Berr, H., XIX, 278.
Berry, A. J., XXI, 183.
Bertallanfy, L. v., XXI, 456-57.
Bertarelli, A., XX, 547.
Berthelot, A., XXI, 460.
Berthelot, M., XIX, 309, 330, 339; XX, 396, 577, 587; XXI, 14 f., 17, 23, 24, 27, 33, 35, 191, 548.
Berthelot, R., XIX, 409; XX, 555.
Berthier, A. G., see Georges-Berthier, A.
Berthollet, C. M., XIX, 401; XX, 547; XXI, 192.
Berthoud, F., XIX, 236.
Bertoldi, V., XIX, 599.
Bertone, C., XXI, 386.

Bertram, E., XX, 569.
Bertrand, J., XX, 169, 172, 183; XXI, 522.
Berzelius, J., XIX, 406; XXI, 188, 193, 194, 195, 197, 391.
Besredka, A., XXI, 511.
Bessel, F. G., XIX, 590.
Bessel-Hagen, E., XIX, 384, 584.
Bessmertny, A., XIX, 446.
Bessmertny, B., XIX, 405.
Besson, M., XIX, 305.
Besthorn, R. O., XIX, 384; XXI, 602.
Betz, H., XX, 538.
Betzendörfer, W., XIX, 420.
Beuchat, H., XXI, 511.
Beudant, F. S., XIX, 309.
Bévenot, H., XIX, 282; XXI, 511.
Beveridge, H., XX, 452.
Bews, J. W., XIX, 598.
Beydals, P., XX, 537.
Beyer, H. W., XIX, 428.
Beynon, H., XX, 545.
Bezdechi, St., XIX, 523.
Bezold, C., XIX, 589; XXI, 511.
Bezout, E., XIX, 108.
Bhāṇḍārkar, R. G., XXI, 511.
Bhartrihari, XXI, 511.
Bhāskara II, XIX, 472, 474 ff.; XXI, 350, 364.
Bhattacaryya, B., XIX, 286.
Bhāvaprakāśa, XIX, 542.
Bhojadeva, XX, 521.
Bianchi, G., XX, 543; XXI, 511.
Bianchi, L., XX, 185, 186, 564; XXI, 409.
Bichat, M. F. X., XIX, 404.
Bick, E. M., XIX, 554.
Bidez, J., XIX, 561; XXI, 522.
Bidwell, P. W., XXI, 459.
Biedl, XX, 237, 244.
Bierens de Haan, J. A., XIX, 415.
Biett, L. T., XX, 505.
Biggin, G., XIX, 591.
Bigelow, M., XIX, 302; XXI, 607
Bigelow, R.P., XIX, 302; XXI, 607.
Biggar, H. P., XIX, 394; XX, 531.
Bignami, A., XXI, 571.
Bigourdan, M. G., XX, 595; XXI, 452.
Bijl, W. F. T. van der, XIX, 536; XXI, 471.
Bijlmer, H. J. T., XIX, 566.
Biklārish, ibn, XIX, 387.
Bila, C., XX, 545.
Bilancioni, G., XIX, 556; XX, 543, 545; XXI, 394, 511, 571.
Bilharz, T., XXI, 396, 407.
Bilikiewicz, T., XX, 497, 604; XXI, 511.
Billandel, M., XIX, 294.
Bing, F. C., XIX, 407.
Binyon, L., XIX, 528.
Bird, J., XIX, 268; XXI, 546.
Biringuccio, V., XXI, 569.
Birkenmajer, A., XIX, 262, 293, 364-78, 523; XX, 260, 335, 440; XXI, 360, 368, 512.
Birkenmajer, L. A., XXI, 512.
Birkett, H. S., XXI, 468.
Birkner, F., XXI, 512.
al-Bīrūnī, XIX, 508, 510, 527; XX, 451-54; XXI, 512, 586, 593, 594.
Biržiška, V., XX, 592.
Bischof, C. G., XXI, 125 ff.
Biscoe, J., XIX, 553, 554; XXI, 526.
Bishop, W. J., XIX, 402.
Bišr Mattā, abū, XIX, 290.
Bistichius, XXI, 149.
Bjerknes, C. A., XXI, 398.
Bjerknes, W. F. K., XXI, 398.
Björnbo, A., XXI, 602.
Blachère, R., XXI, 435.

Black, J., XX, 246, 248, 251 ff.; XXI, 175.
Blagden, C. O., XX, 525, 529.
Blake, R. P., XIX, 195.
Blanchet, A., XIX, 404.
Blanchet, F., XXI, 468.
Blanchet, L., XXI, 423, 512.
Blanton, W. B., XX, 552; XXI, 512.
Blaringhem, L., XXI, 512.
Blaschke, M., XXI, 388.
Blasius, W., XXI, 401.
Blasius of Parma, XXI, 149.
Bligh, E. W., XX, 533.
Blignières, C. de, XXI, 396.
Bliss, H. E., XXI, 512.
Bloch, C., XIX, 579.
Bloch, E., XXI, 512 f.
Bloch, I., XXI, 513.
Bloch, M., XXI, 513.
Bloch, M. A., XIX, 551.
Blodgett, K. B., XXI, 410.
Blöndal, S., XX, 531.
Blok, P. J., XXI, 286.
Blokh, M. A., XXI, 513.
Blomfield, R., XX, 536.
Blumenbach, J. F., XX, 498.
Blundeville, T., XX, 493; XXI, 278.
Boas, G., XXI, 377.
Bobb, J. S., XIX, 246.
Bobrovnikoff, N. T., XX, 316-18, 470-72.
Bockhart, M., XIX, 609.
Bode, J., XIX, 217.
Bode, W. v., XXI, 407.
Bodenheimer, F. S., XIX, 442, 600; XX, 448; XXI, 513.
Bodewig, E., XIX, 259.
Bodin, J., XIX, 53.
Bodmer, J. G., XIX, 552.
Böcking, E., XX, 529.
Böhme, J., XIX, 79, 80.
Böklen, O., XX, 184.
Boerhaave, H., XX, 246, 248, 251, 252, 414; XXI, 58, 528, 568.
Boethius, XIX, 78, 181, 189, 194, 364, 372, 374, 375, 383, 512; XX, 61 ff., 516; XXI, 213.
Boethius (pseudo), XIX, 190, 194.
Böttger, XX, 542.
Boffito, G., XX, 547.
Bogaert, E. W., XIX, 299.
Bodgan, J., XIX, 388.
Bohn, G., XXI, 513.
Bohr, N., XIX, 413.
Bois-Reymond, Em. du, XXI, 196, 401.
Bois-Reymond, Es. du, XXI, 401.
Bois-Reymond, P. du, XXI, 333.
Boissard, J. J., XXI, 149.
Boll, F., XIX, 589; XXI, 513.
Boll, M., XIX, 437; XX, 594; XXI, 513.
Bollensen, F., XIX, 274.
Bologa, V. L., XIX, 280, 293; XXI, 439.
Bolos-Democritos, XIX, 382.
Bolton, H. C., XXI, 81.
Bolton, H. E., XX, 555.
Bolton, J., XXI, 385.
Bolus, E. J., XIX, 583.
Bolyai, J., XIX, 154; XX, 164, 174.
Bolzano, B., XIX, 404-05; XX, 559; XXI, 388, 514, 601.
Bombelli, R., XXI, 514.
Bonanni, XXI, 228.
Bonar, J., XX, 555.
Bonavia, E., XXI, 11, 12.
Boncompagni, B., XIX, 588.
Bond, H., XIX, 236.
Bond, J. D., XXI, 514.
Bond, T., XIX, 246.
Bonincontri, L., XXI, 149.

Bonnet, C., XX, 498.
Bonnet, O., XX, 169, 170, 179, 183.
Bonomo, G. C., XIX, 267, 398.
Bontius, J., XIX, 265.
Bopp, C., XXI, 514.
Bopp, F., XIX, 274.
Borchardt, L., XX, 16.
Borda, J. C. de, XIX, 350.
Bordiga, G., XXI, 276.
Bordoni, A. M., XX, 174, 178.
Borell, XXI, 52, 229.
Borelli, G. A., XX, 498, 537.
Borelli, P., XX, 497.
Borelius, W., XX, 497.
Borichevski, I., XXI, 380.
Bork, F., XIX, 560.
Born, M., XX, 595.
Borodin, A., XIX, 272.
Borough, W., XXI, 279, 280.
Borrichius, O., XIX, 256; XX, 411.
Borromeo, F., XIX, 545.
Bortolotti, E., XX, 592; XXI, 370, 514.
Borza, A., XX, 550.
Boscawen, W. S. C., XXI, 11.
Bosch, R., XXI, 411.
Bose, J. C., XIX, 598.
Bosmans, H., XIX, 264, 266; XXI, 208, 209, 284 f., 514, 584.
Bostock, J., XXI, 9.
Botta, C., XIX, 608; XX, 564.
Bottini, E., XIX, 608; XX, 610.
Boubier, M., XX, 602; XXI, 514.
Bouchard, E., XXI, 468.
Boucher, J., XXI, 403.
Bougainville, L. A. de, XX, 551, 552.
Bouguer, P., XIX, 236; XXI, 278.
Bouillaud, I., XIX, 383.
Bouillet, J., XX, 367.
Bouillon-Lagrange, E. T. P., XIX, 591.
Boulanger, J., XXI, 391.
Boulger, G. S., XIX, 443.
Boulton, H., XXI, 121.
Bounoure, L., XXI, 515.
Bouquet, H., XIX, 553.
Bour, E., XX, 179 f.
Bourdelin, C., XIX, 332.
Boudelot, XX, 533.
Bourdon, B., XIX, 447.
Bourdon, J., XXI, 425.
Bourgin, H., XXI, 515.
Bourguet, L., XX, 498.
Bournon, J. L. de, XIX, 309.
Boussinesq, J., XXI, 515.
Boussingault, J. B., XIX, 309.
Boutaric, A., XIX, 298; XXI, 515.
Bouthoul, G., XXI, 366.
Boutroux, P. L., XXI, 515.
Bouvard, A., XIX, 236.
Bouvier, R., XXI, 515.
Bouyges, M., XIX, 201, 257; XXI, 515.
Bowditch, N., XXI, 578.
Bowen, H., XX, 521.
Bower, F. O., XXI, 445.
Bowes, J., XXI, 447.
Bowman, I., XIX, 444, 445.
Boxer, C. R., XIX, 267.
Boy-Teissier, XX, 225, 242.
Boyle, Ro., XIX, 204-05, 397, 594; XX, 350 f., 353 ff., 411 ff., 535, 536; XXI, 190, 528, 538.
Boylston, Z., XXI, 237.
Braconnot, H., XIX, 593.
Bradley, H., XIX, 261.
Bradley, J., XIX, 268; XXI, 591.
Bräunlich, E., XXI, 350, 435.
Bragg, W. H., XX, 472 f., 560, 572.
Bragman, L. J., XIX, 455; XX, 570.
Brahe, T., XIX, 53, 54, 587; XXI,

132, 133, 134, 135, 137 ff., 515.
Brachet, A., XXI, 411.
Brahmagupta, XIX, 255, 383, 478, 479, 482, 483, 576; XX, 30.
Braithwaite, R. B., XXI, 397.
Brancaleone, XXI, 368.
Brand, K., XXI, 389.
Brandegee, M. K. L. C., XX, 565.
Brandegee, T. S., XX, 567.
Brandt, O., XIX, 591.
Brasch, F. E., XX, 565; XXI, 134-44, 240, 515.
Brass, E., XIX, 600.
Bratianu, G. I., XXI, 360.
Brattle, T., XXI, 236.
Braun, G., XXI, 403.
Braun-Blanquet, J., XIX, 599.
Bravais, A., XXI, 609.
Breasted, J. H., XIX, 450 ; XXI, 305-16, 515 f.
Bredeau, C., XX, 469.
Bredikhin, T. A., XIX, 273.
Bréhier, E., XIX, 310, 557; XXI, 516.
Bréhier, L., XXI, 427, 516.
Brehm, A., XXI, 403.
Breidenbach, W., XXI, 447.
Breil, A. du, XIX, 542.
Bremm, J., XXI, 394.
Bretschneider, H., XIX, 312; XXI, 551.
Brett, G. S., XXI, 516.
Brett-Majes, N. G., XIX, 549.
Bretz, J. H., XX, 603.
Breuil, H., XIX, 303, 305.
Brewster, E. T., XXI, 516
Brialmont, H. A., XXI, 253.
Bridges, R., XXI, 387.
Bridgman, P. W., XX, 486, 489.
Brieger, W. G., XXI, 598.
Brillouin, L., XXI, 452.
Brillouin, M., XXI, 389.
Brim, C. J., XIX, 547.
Brioschi, F., XX, 178 f.
Brisson, M. J., XIX, 340, 349, 352.
Britten, J., XIX, 443.
Brocher, H., XIX, 447.
Brockelmann, C., XXI, 354.
Brönnle, P., XXI, 516.
Broglie, L. de, XIX, 295, 437; XX, 595; XXI, 452.
Broglie, M. de, XIX, 410, 437, 591.
Brome, H., XXI, 516.
Brooks, C., XXI, 121.
Brooks, C. E. P., XIX, 305.
Broun, T., XXI, 150.
Brousse, XX, 222, 242.
Brouwer, L. E. J., XX, 486 f., 491, 591.
Brown, C. B., XXI, 401.
Brown, D. M., XX, 72-160; XXI, 516.
Brown, J. C., XXI, 516.
Brown, Ri., XXI, 285.
Brown, Ro., XIX, 407, 408.
Brown, S., XIX, 552.
Brown, S. H., XIX, 458.
Brown, W. L.; XX, 599.
Brown-Sequard, C. E., XX, 223, 242.
Browne, C. A., XIX, 275, 549; XX, 600; XXI, 236 f., 455, 517.
Browne, E. G., XIX, 583; XXI, 435, 517.
Browne, T., XIX, 265; XX, 337-43; XXI, 74, 509, 525.
Broydé, XIX, 210, 211.
Bruck, A. von, XIX, 394.
Bruhat, G., XIX, 296.
Brunet, P., XIX, 212-14, 268, 293, 431; XX, 367-95, 595; XXI, 517.
Brunhes, J. B., XIX, 277.
Brunn, W. von, XXI, 517.
Brunner, C., XXI, 517.

Bruno, G., XIX, 395.
Brunot, F., XIX, 309; XXI, 517.
Brunschvicg, L., XIX, 212-14, 605; XXI, 375, 517 f.
Brunschwig, A., XX, 563.
Bryan, C. L., XIX, 295.
Bryan, J. H., XXI, 470.
Bryant, H., XXI, 113.
Bryk, O. J., XXI, 518.
Bryson, XIX, 289.
Bubnov, N., XIX, 180-94; XXI, 558.
Bucerius, W., XIX, 555.
Buchanan, F. H., XXI, 391.
Buckton, A. M., XIX, 406.
Buddha, XIX, 287, 575; XX, 508, 509.
Budé, G., XXI, 580.
Budge, E. A. W., XXI, 10, 12, 306, 307, 415, 518.
Buée, A. Q., XIX, 147, 148.
Bueno, C., XIX, 451.
Bürger, H., XIX, 541.
Bürgi, J., XIX, 231, 540.
Bütschli, O., XX, 222, 242.
Bützberger, F., XIX, 155, 164, 165, 167, 168, 171.
Bufalini, M., XX, 610.
Buffon, G. L. L., XX, 496, 498; XXI, 518, 530.
Bugge, G., XIX, 586.
Buhl, A., XIX, 275, 555.
Buhler, XX, 227, 243.
Buick, T. L., XIX, 600.
Buitzruss, C., XXI, 150.
Bukinich, D. D., XIX, 565.
Bull, L., XXI, 518.
Bulletti, E., XIX, 538.
Bullialdus, I., see Bouillaud, I.
Bulling, C., XX, 555.
Bultingaire, L., XXI, 385.
Bumm, E., XIX, 609.
Bundūd, ibn, XIX, 435.
al-Buni, XIX, 429.
Buondelmonti, XIX, 487.
Burali-Forti, C., XX, 189.
Burattini, T. L., XXI, 448.
Burdett, F. D., XIX, 598.
Burg, XIX, 236.
Burgos, F. C., XIX, 393.
Burill, I. M., XIX, 398.
Burke, E., XXI, 86.
Burke, J. B., XIX, 214-17; XXI, 518.
Burke, R. B., XXI, 508.
Burkitt, M. C., XIX, 603.
Burnam, J., XIX, 190, 191.
Burnham, J. B., XIX, 566.
Burnouf, E., XIX, 274.
Buron, E., XIX, 392.
Burr, A. C., XIX, 298; XX, 246-59; XXI, 169-86, 518.
Burr, C. W., XIX, 414; XXI, 403.
Burrau, C., XXI, 143.
Burriss, E. E., XIX, 419.
Burton, R., XIX, 52, 57, 64, 68; XX, 534.
Bury, J. B., XXI, 518.
Busco, P., XXI, 518.
Bush, V., XXI, 398.
Bushell, T., XIX, 264; XX, 534.
Bushnell, D. I., jr., XIX, 409.
Bushnell, G. H., XIX, 563.
Busquet, XX, 532.
Bussey, G. C., XXI, 557.
Buṭlān, ibn, XX, 520.
Butler, C., XX, 356.
Butler, C. S., XX, 526.
Butler, H. C., XIX, 563.
Butler, H. E., XXI, 518.
Butler, P., XXI, 368.
Butler, S., XIX, 29, 30, 41; XX, 294-96; XXI, 600.
Butrigarius, H., XIX, 540.

Butterfield, XXI, 381.
Byrhtfert of Ramsey, XIX, 187.

C

Cabei, N., XX, 496.
Cadet, L. C. de Gassicourt, XIX, 332.
Caesar, J., XX, 513.
Cagliostro, A., XIX, 404; XX, 558.
Cahn, T., XXI, 457.
Caillet, A. L., XXI, 518.
Caillié, R., XXI, 391.
Caizergues, J. F., XXI, 386.
Cajori, F., XIX, 275; XXI, 507, 519 f.
Caland, W., XIX, 568.
Caldani, F., XIX, 403.
Caldani, L., XIX, 403.
Calderia, J., XXI, 150.
Calkins, G. N., XX, 227, 243.
Callimachos, XIX, 27.
Calmette, A., XXI, 403.
Calthoff, C. = Calthovius, XX, 536.
Calverley, E. E., XXI, 362.
Calvin, J., XIX, 36.
Camac, C. N. B., XIX, 455.
Camden, C., jr., XIX, 26-73; XXI, 373, 520.
Cameron, G. R., XIX, 611.
Cameron, J. H., XX, 531.
Campanella, T., XXI, 512.
Campanus, XXI, 150.
Campbell, A. M., XIX, 260, 391; XXI, 520.
Campbell, D., XXI, 209.
Campbell, J. M., XIX, 382.
Campini, XXI, 228.
Canano, G. B., XIX, 455; XXI, 520.
Candidus, see Decembrio, P. C.
Candolle, A. de, XXI, 520.
Çankara, XXI, 529.
Cannizaro, S., XXI, 520.
Çantideva, XXI, 509.
Canton, J., XX, 250; XXI, 81 ff.
Cantor, G., XX, 486, 564.
Cantor, M., XX, 189; XXI, 247, 278, 398.
Capart, J., XIX, 416, 417; XX, 575.
Capitan, L., XIX, 305.
Cappelle, J. P. v., XXI, 285.
Caraka, XIX, 574, 575.
Carcopino, G., XIX, 300.
Cardano, G., XIX, 50, 263, 538; XX, 496, 527; XXI, 273.
Cardini, M., XIX, 542.
Carleton, G., XIX, 27, 30, 31, 35, 37.
Carmichael, E. B., XIX, 431.
Carmichael, R. D., XX, 209; XXI, 521.
Carmoly, E., XX, 275.
Carnot, L., XIX, 114, 115.
Carnot, S., XIX, 552, 553; XX, 168, 170, 560.
Caron, P., XXI, 465.
Carpenter, S. C., XIX, 428.
Carr, H. W., XX, 199.
Carra de Vaux, B., XIX, 192, 509; XX, 262, 280 ff.; XXI, 521.
Carré, J. M., XIX, 398; XX, 575.
Carré, J. R., XIX, 205-07; XXI, 521.
Carrel, Al., XX, 231, 243.
Carroll, J., XIX, 247.
Carroll, L., XX, 564, 565, 566; XXI, 397.
Carter, F. T., XIX, 426.
Carter, H. R., XIX, 313; XXI, 521.
Carter, L. A., XIX, 313; XXI, 521.
Carter, T. F., XXI, 521.

Cartier, J., XIX, 349, 394, 537.
Carus, P., XXI, 521.
Cary, M., XXI, 414.
Casanova, G., XXI, 494.
Casanova, P., XX, 522.
Caskel, W., XXI, 436.
Casoli, V., XX, 610.
Casorati, F., XX, 178.
Caspar, M., XX, 530; XXI, 521.
Cassini, J. D., XIX, 396.
Cassiodorus, F. M. A., XX, 62 ff.
Cassirer, E., XX, 555; XXI, 521.
Castagné, J., XXI, 463.
Castel, XX, 391.
Castelnau, J. de, XIX, 392.
Castiglioni, A., XIX, 396, 400, 455; XX, 509, 613; XXI, 522.
Catalan, E., XX, 169.
Caton-Thompson, G., XXI, 416.
Cattaneo, C., XX, 610.
Cattell, J. M., XIX, 314.
Cauchy, A. L., XIX, 116, 119, 120; XX, 560; XXI, 553, 601.
Caullery, M., XX, 567.
Cavalieri, B., XIX, 95, 231.
Caxton, W., XIX, 261.
Cayley, A., XIX, 149; XX, 171, 173, 197.
Cayley, G., XXI, 389.
Cazalas, E., XXI, 383.
Cazalis, XX, 222, 242.
Celli, A., XXI, 470.
Celli-Fraentzel, A., XIX, 561.
Cennino, XXI, 205.
Cermisone, A., XX, 440; XXI, 512.
Cerna, D., XIX, 611.
Cesalpino, A., XIX, 455.
Cesari, C., XIX, 272.
Cesariano, C., XX, 527.
Cesaro, E., XX, 156, 189.
Cestoni, G., XIX, 267, 398.
Cetti, F., XIX, 270.
Ceulen, L. v., XXI, 250, 253.
Chace, A. B., XXI, 409, 522.
Chaine, J., XIX, 271; XXI, 522.
Chakravarti, G., XXI, 428.
Chakravarti, N. P., XIX, 568.
Challis, J., XX, 208.
Chambard, R., XIX, 516-18; XXI, 522.
Chamber, J., XIX, 27 ff.
Chamberlain, H. S., XXI, 522.
Chamberlen, P., XIX, 456.
Chambers, E., XIX, 401.
Chambers, E. K., XIX, 543.
Champier, S., XXI, 368.
Champlain, S. de, XX, 531.
Champollion, J.F., XIX, 406; XXI, 516.
Chance, B., XXI, 383.
Chang, T. T., XX, 324-34; XXI, 522.
Ch'ang-Ch'un, XIX, 258.
Channing, W., XX, 503.
Chaplin, D., XIX, 569.
Chapman, A. C., XIX, 547; XX, 566, 575, 599, 600.
Chapman, G., XIX, 46, 47, 49.
Chapman, P. F., XIX, 536; XXI, 522.
Chappe, XIX, 350, 355.
Chaptal, J. A., XX, 548.
Charbonnier, P. E., XXI, 522.
Charlé, F., XX, 541.
Charles, V, XIX, 392.
Chasles, M., XIX, 230.
Chatelain, M., XXI, 398.
Chatterji, J. C., XIX, 569.
Chaucer, G., XIX, 261, 262, 535; XX, 524.
Chauffard, A., XX, 572.
Chauveau, A. B., XXI, 522.
Cheikho, L., XIX, 282, 289.
Cheke, J., XIX, 50.

Chelini, D., XX, 174, 178.
Chemin, XIX, 360 ff.; XX, 403.
Chenevix, R., XIX, 271.
Ch'êng Chin-fang, XX, 327.
Chevalier, C. L., XXI, 229.
Chevalley, C., XIX, 413.
Chevki Osman, XX, 614.
Chevreul, E., XIX, 407.
Chia Chê, XX, 325.
Chia Chih-chung, XX, 326.
Chia Ming, XX, 324-34; XXI, 522.
Chia Yung-chung, XX, 326.
Chia Wên-ting, see Chia Ming.
Chidsey, D. B., XIX, 541.
Child, C. M., XIX, 414.
Child, J. M., XIX, 129; XX, 234, 244; XXI, 522 f., 540.
Child, R., XXI, 556.
Childe, V. G., XIX, 603 f.
Chinard, G., XX, 555.
Chiò, V., XX, 610.
Chladni, E. F. F., XX, 158, 160, 167, 548.
Choulant, L., XIX, 312; XXI, 61, 523, 551.
Chowry, M. D., XIX, 569.
Christensen, S. A., XX, 189.
Christian, V., XIX, 279.
Christiansen, C., XXI, 184.
Christie, D., XXI, 407.
Christoffel, E. B., XX, 180 ff.
Christopher of Paris, XXI, 150.
Chu-I-chung, XIX, 256.
Chu-Shih-chieh, XXI, 365.
Ciarcià, S., XXI, 523.
Cicavo, G. C. P., XXI, 552.
Cicero, XIX, 378.
Ciruelo, P. S., XXI, 519.
Civinini, F., XX, 563.
Claas, W., XIX, 594.
Clairault, A. C., XIX, 100, 101, 103, 105, 108, 109; XXI, 380.
Claparède, E., XXI, 523.
Clapeyron, B. F. E., XX, 168.
Clark, A. H., XXI, 238.
Clark, G., XXI, 463.
Clark, J. H., XXI, 471.
Clark, K., XIX, 451.
Clark, L. F., XXI, 238.
Clark, W. E., XXI, 507.
Clark-Kennedy, A. E., XXI, 523.
Clarke, F. M., XXI, 523.
Clarke, Sa., XIX, 122.
Clarke, So., XIX, 416.
Classen, J., XX, 596.
Clausius, R. E. J., XXI, 182 ff.
Clavius, C., XIX, 364, 540; XXI, 373.
Clay, R. S., XXI, 227-30.
Clayton, J., XIX, 547.
Clebsch, R. F. A., XX, 149.
Cleland, J., XIX, 28, 35.
Clemen, C., XIX, 278, 453 f.
Clements, F. E., XIX, 448.
Cleostratos, XXI, 340.
Clerke, G., XX, 363.
Clod-Hansen, A., XXI, 523.
Closson, E., XIX, 416.
Clowes, G. S. L., XIX, 300; XXI, 456.
Clowes, W., XIX, 395.
Clusius, C., XIX, 542.
Coates, H. H., XXI, 523.
Cobbett, W., see Porcupine, P.
Cobo, B., XIX, 451.
Cocchi, A., XIX, 608; XX, 610.
Cochet, M. A., XX, 570.
Codazzi, D., XX, 178 ff., 186.
Codellas, P. S., XX, 508.
Codrington, H. W., XIX, 569.
Coedès, G., XIX, 183; XX, 581.
Cohen, E., XXI, 523.
Cohn, E., XX, 203.
Coissac, G. M., XXI, 524.

Coiter, V., XXI, 374.
Cola, F., XIX, 439.
Colani, M., XXI, 427.
Colbatch, J., XXI, 379.
Colding, L. A., XXI, 524.
Cole, J. F., XIX, 404; XX, 497; XXI, 524.
Colebrooke, H. T., XIX, 478; XX, 30.
Coleridge, S. T., XIX, 311.
Coles, R. R., XIX, 444.
Colin, G. S., XIX, 528.
Collard A., XX, 426-35, XXI, 524.
Collier, V. W. F., XXI, 524.
Collina, G., XIX, 549.
Collingwood, R. C., XXI, 424.
Collins, D. C., XIX, 543.
Collins, E., XXI, 524.
Collins, F. S., XX, 567.
Collins, J., XIX, 128, 133.
Colman, E., XX, 570, 592.
Colombo, R., XIX, 455.
Colombus, C., XIX, 236, 392; XXI, 368, 369, 584 f.
Columella, XX, 513.
Comberousse, C. de, XIX, 373.
Combes, R., XXI, 459, 524.
Combescure, E., XX, 183.
Comenius, XX, 533.
Commissariat, M. S., XIX, 544.
Comnène, A., XIX, 386.
Comperz, H., XIX, 286.
Compton, K. C., XIX, 413; XXI, 398.
Compton, P., XIX, 274; XX, 568.
Comrie, J. D., XIX, 455.
Comte, A., XIX, 410; XX, 605 f.; XXI, 396, 397, 549, 576, 590.
Comtino, M., XX, 275, 276; XXI, 594.
Condorcet, A. N. C. de, XX, 74, 556; XXI, 387.
Confucius, XIX, 287; XXI, 490.
Connolly, M., XIX, 305.
Conrad Heingarter = C. Thuricensis, see Heingarter, C.
Constantinus Africanus, XX, 521.
Contenau, G., XX, 474-78; XXI, 524.
Conway, A., XXI, 574.
Conway, A. W., XXI, 388.
Cook, J., XX, 318.
Cook, O. F., XIX, 598.
Coolidge, J. L., XXI, 238.
Coomaraswamy, A. K., XIX, 74-91, 424, 569; XXI, 428, 524.
Cooper, L., XIX, 383.
Cope, E. D., XX, 291-93; XXI, 576.
Copeland, R., XXI, 135, 139.
Copernic, N., XIX, 122, 393, 587; XX, 196, 528; XXI, 261, 370, 512.
Cordier, H., XXI, 428, 524.
Cordus, V., XXI, 558, 602.
Coriolis, G. G., XIX, 119.
Corner, G. W., XXI, 525.
Cornford, F. M., XXI, 340.
Cornish, V., XIX, 598.
Corti, A., XIX, 556.
Corti, E. C., XIX, 598.
Cosserat, E., XX, 149.
Cosserat, F., XX, 149.
Costa, A. C., da, XXI, 411.
Coste, jr., XIX, 609.
Cotugno, D., XIX, 556; XX, 552, 611.
Couchoud, P. L., XXI, 525.
Coulter, J. S., XX, 610.
Counson, A., XIX, 308.
Coupland, R., XXI, 391.
Courau, R., XXI, 407.
Cournot, A. A., XX, 560.
Court, T. H., XXI, 227-30.

Courteille, C. P. de, XIX, 408.
Courtillier, G., XIX, 569.
Cousens, H., XIX, 569.
Cousin, V., XIX, 272.
Covell, W., XIX, 60.
Coverte, R., XX, 532.
Cowdry, E. V., XXI, 525.
Cowles, T., XX, 344-66; XXI, 71-80, 525.
Cox, R. T., XX, 484; XXI, 525.
Coxe, F., XIX, 27, 34, 38, 39.
Coxe, W., XXI, 106.
Craig, H., XIX, 42, 59, 69.
Cramp, W., XIX, 271.
Cranmer-Byng, L., XXI, 525.
Craven, R. M., XXI, 383.
Crawford, A., XXI, 170, 192.
Crawley, C., XXI, 399.
Crédé, K. S. F., XIX, 609.
Crell, L., XX, 547.
Cremona, L., XX, 178 f.
Crescas, H., XX, 527; XXI, 613.
Cresson, A., XXI, 466, 525.
Creswell, K. A. C., XIX, 504, 505, 583; XXI, 592.
Crexell i Vallhonrat, J., XX, 573.
Collinet, P., XX, 577.
Critias, XIX, 380.
Croce, B., XX, 464-67; XXI, 510.
Cromer, G , XIX, 300.
Crommelin, C. A., XIX, 266.
Crooke, H., XXI, 60, 61, 64.
Crookes, W., XXI, 537.
Cros, G., XIX, 298.
Crosthwait, H. L., XX, 572.
Crucé, E., XXI, 525.
Crum, R. B., XIX, 294.
Crum, W. E., XIX, 416.
Cruveilhier, J., XXI, 394.
Csoma, A., XXI, 590.
Cuénot, L., XX, 602.
Cullen, W., XX, 251.
Culpeper, N., XXI, 229.
Cumming, H. S., XXI, 471.
Cumont, F., XIX, 420; XXI, 348, 349, 522.
Cuntz, O., XX, 269.
Curie, I., XIX, 437.
Curio, J., XIX, 366 ff.
Curtiss, J. F., XIX, 30.
Curtius, A., XXI, 525.
Curtze, M., XIX, 384, 386, 531.
Cusa, N. de, XIX, 283, 486 ff.; XX, 457-64; XXI, 211-13, 525.
Cushing, H., XXI, 520, 526.
Cuthbertson, W., XIX, 599; XX, 600.
Cutler, C. C., XXI, 526.
Cuvier, G., XIX, 271, 402, 407, 551, 553, 554; XX, 551; XXI, 385, 391, 392, 527.
Czakó, E., XIX, 577.
Czepkos, D., XXI, 380.

D

Dacqué, E., XXI, 526.
Dādābhaṭa, XIX, 473.
Daguerre, L. J. M., XXI, 390.
Dahlmann, F. C., XXI, 526.
Dains, F. B., XIX, 276.
Daland, J., XXI, 364.
Dallari, U., XIX, 261.
Dalton, E. W., XIX, 554 ; XXI, 526.
Dalton, J., XXI, 176.
Damaskios, XIX, 383.
Damiens, R. F., XXI, 493 ff.
al-Damīrī, XX, 525; XXI, 366.
Damour, A., XIX, 309.
Dampier-Whetham, W. C., XXI, 526; see also Whetham, W.C.D.
Dampier, W., XIX, 266.

Dandelin, G. P., XIX, 155, 156-61, 164, 167, 173, 174, 177, 178; XXI, 388.
Dandieu, A., XIX, 413.
Dangel, R., XXI, 428.
Daniel of Merlai, XIX, 388.
Daniel of Morley, XXI, 150, 596.
Danielson, O. A., XXI, 413.
Danko, see Johannes de Saxonia.
Dannemann, F., XIX, 293; XX, 589; XXI, 526 f.
Dante, XIX, 391, 392, 534; XXI, 364, 365.
Danti, E., XX, 527.
Danton, XX, 553.
Dantzig, T., XX, 592; XXI, 527.
Darboux, G., XX, 183, 185 ff.
Daremberg, C., XX, 569.
Darkó, E., XXI, 427.
Darley, G., XXI, 387.
Darling, M. L., XIX, 569.
Darmois, E., XIX, 439.
Darmois, G., XIX, 452.
Darmstaedter, E., XIX, 259, 389, 393, 407, 457, 459, 562, 598; XXI, 284, 370, 439, 505, 527.
Darwin, C., XIX, 407, 587; XX, 292, 294 ff.; XXI, 403, 579, 590.
Darwin, C. G., XIX, 433.
Darwin, E., XX, 295.
Darwin, F., XX, 294.
Das, A., XIX, 570.
Das, S. K., XIX, 570; XXI, 527.
Das, S. R., XIX, 425; XX, 582.
Dasgupta, S., XIX, 285, 425.
Dastin, J., XXI, 150-51.
Dastre, A., XX, 231, 243.
Date, G. T., XIX, 570.
Datta, B., XIX, 286, 472-85, 570; XXI, 350, 364, 505, 527.
Daudin, H., XXI, 527.
Dauphin, V., XIX, 456.
Dauzat, A., XIX, 309.
Dávid, A., XXI, 418.
David, R., XX, 578.
David de Dinant, XX, 463; XXI, 360.
David the Reubenite, XXI, 372.
David-Neel, A., XIX, 564; XX, 580; XXI, 527 f.
Davids, C. A. F. R., XIX, 286, 570.
Davidson, E. F., XXI, 396, 408.
Davies, J., XIX, 52, 54.
Davies, O., XIX, 561, 606.
Davis, H. T., XIX, 214-17, 217-20, 295, 433, 524, 525; XX, 307-10, 485-88, 488-91, 608; XXI, 322-26, 326-28, 328-30, 330-34, 528.
Davis, R., XXI, 350.
Davis, T. L., XIX, 205, 207-08, 533, 550, 552, 558, 592; XX, 285-86; XXI, 383, 431, 455, 458, 528; and passim.
Davis, W. M., XXI, 528.
Davison, E. S., XXI, 528.
Davy, H., XIX, 407, 591, 592; XXI, 176, 389.
Davy, M. J. B., XIX, 405.
Dawks, I., XIX, 267.
Dawson, C., XIX, 450.
Dawson, E., XXI, 461.
Dawson, M. M., XIX, 582.
Deacon, XIX, 407.
Dean, B., XXI, 528.
Deane, S., XXI, 121.
Debès, M., XXI, 380.
Debye, P., XX, 489.
Decembrio, P. C., XXI, 150.
Dedekind, R., XX, 564; XXI, 397,
Dee, J., XIX, 45, 49, 50, 51, 52, 53; XXI, 375.
Deferrari, R. J., XIX, 382.
Deffontaines, P., XIX, 277.

Defouchy, J. P. G., XX, 397 f., 405 f., 416.
Dehérain, H., XIX, 407; XX, 556.
Dehn, M., XX, 436.
Deissmann, A., XX, 269, 272.
Dejust, L. H., XXI, 528.
Delacre, M., XXI, 529.
Delage, E., XXI, 344.
De La Mare, W., XX, 565.
Delaporte, L., XIX, 563; XXI, 407.
Delassus, A., XIX, 457.
Delatte, A., XIX, 562; XX, 478-80, 509, 576; XXI, 522, 529.
Delaunay, P., XIX, 408.
Delavaud, H. C., XXI, 414.
Delbeuf, J., XX, 225.
Deléage, E., XXI, 374.
Delisle, J. N., XX, 483.
Delorme, F. M., XIX, 533.
Delsaux, H., XX, 556.
Deltheil, R., XXI, 439.
Demange, XX, 222.
Demiéville, P., XIX, 530; XXI, 428, 429.
Democritos, XIX, 419, 587; XX, 25, 44.
Democritos (pseudo), XXI, 205.
Dempster, J. H., XIX, 397 f., 548.
Denayer, M., XX, 604.
Dennery, E., XIX, 563.
Denninger, H. S., XX, 606.
Deny, J., XXI, 529.
Deonna, W., XXI, 529.
Déparcieux, A. (le jeune), XIX, 335, 340, 345 ff., 551; XX, 397 ff.
Dept, G. G., XIX, 525, 530, 602.
Dercum, F. X., XIX, 414.
Derenne, E., XIX, 418.
Desaguliers, J. T., XX, 249.
Desargues, G., XIX, 231.
Desault, P. J., XXI, 386.
Descamps, P., XIX, 305, 307, 308.
Descartes, R., XIX, 95, 221, 231, 264, 265, 544; XX, 366 ff., 498, 530, 534; XXI, 257, 277, 354, 376, 512, 529, 578, 585, 606.
Deschamps, P., XIX, 423.
Descloizeaux, A., XIX, 309.
Desideri, I., XIX, 399; XXI, 382.
Deslandres, P., XXI, 385.
Desmarets, N., XIX, 309.
Despretz, C., XX, 258; XXI, 180.
Dessoir, M., XIX, 306; XXI, 529.
Desson, H., XX, 585.
Deursen, A. v., XIX, 306.
Deussen, P., XXI, 529.
Devaux, P., XIX, 294, 412.
Devivaise, C., XXI, 409.
De Vleeschauwer, H. J., XXI, 447.
Devolvé, J., XIX, 410.
Dewey, C., XX, 258.
Dewey, J., XIX, 453, 569; XX, 308.
adh-Dhahabī, XIX, 534; XXI, 365.
Dhu'n-Nun al-Miṣrī, XXI, 31.
Diamare, V., XIX, 608; XX, 611.
Diasio, F. A., XX, 568.
Dickins, B. G., XXI, 185.
Dickinson, H. W., XIX, 410, 552; XXI, 530.
Dickson, T., XXI, 122.
Dickstein, S., XIX, 229.
Dickmann, H., XIX, 577.
Dickson, L. E., XXI, 530.
Diderot, D., XIX, 335, 400, 401; XX, 264.
Didymos, XIX, 382.
Diehl, C., XXI, 427.
Diels, H., XXI, 530.
Diepgen, P., XIX, 311, 400, 411; XX, 556, 611; XXI, 401, 403, 413, 467.
Diercke, P., XX, 269.
Diergart, P., XXI, 411.

Diès, A., XXI. 530.
Digby, K., XX, 533.
Digges, L., XIX, 50.
Digges, T., XIX, 50; XXI, 227.
Dignaga, XX, 515.
Dihle, H., XIX, 551.
Dijksterhuis, E. J., XX, 546, 575, 593; XXI, 285, 373, 376, 378, 383, 389, 423, 447, 530.
Dikshit, S. B., XIX, 472; XXI, 350.
Dikshitar, V. R. R., XIX, 570.
Dilthey, W., XXI, 408.
Dimier, L., XXI, 530.
Dimsdale, T., XIX, 402.
Dines, W. H., XXI, 410.
Dingle, H., XIX, 433, 436.
Dingler, H., XIX, 586; XXI, 530.
Dinsmore, J. E., XX, 600.
Diophantos, XXI, 250, 263.
Dirac, P. A. M., XIX, 295; XX, 207, 595.
Disney, A. N., XX, 495-97; XXI, 530.
Ditzen, A., XIX, 564.
Dive, P., XXI, 461.
Divini, E., XXI, 214.
Dixon, W. E., XIX, 278.
Dobbin, L., XIX, 262; XX, 549.
Dobell, C., XX, 537; XXI, 216-18.
Dodgson, C. L., see Lewis, C.
Dodson, J., XIX, 236.
Döbereiner, J. W., XIX, 407.
Doehlemann, C., XIX, 180.
Dogel, XX, 237, 244.
Dohrn, M., XX, 287-90; XXI, 530.
Dold, P. A., XIX, 282.
Dolomieu, D., XIX, 309; XXI, 557.
Dombart, T., XX, 578, 595.
Dominguez, J. A., XIX, 313.
Doms, XX, 236, 244.
Donaldson, D. M., XXI, 351.
Dondi, G. de', XXI, 605.
Dondi, J. de', XXI, 605.
Doneldey, A., XXI, 366.
Doninck, A. v., XIX, 609; XX, 614.
Donnus Nicolaus Germanus, XIX, 487 ff.; XX, 268, 270, 272; XXI, 367.
d'Ooge, M. L., XXI, 574.
Doolittle, M., XXI, 436.
Dornickx, C. G. J., XX, 553.
Dorveaux, P., XIX, 267, 272, 586; XX, 543; XXI, 389, 530.
Doublet, E. L., XIX, 297, 550; XX, 547, 566; XXI, 531.
Doubnow, S., XXI, 433.
Douglas, J., XXI, 468.
Douglas, W., XXI, 237.
Douglass, A. E., XIX, 598.
Dow, A., XXI, 105.
Dow, G. F., XX, 540.
Dozy, R., XXI, 320.
Drachmann, A. G., XXI, 456.
Draper, H., XIX, 66.
Drawbridge, C. L., XIX, 454.
Drayton, M., XIX, 58.
Drebbel, C., XX, 285-86, 497; XXI, 606.
Drecker, J., XX, 310 f., 493; XXI, 531.
Drever, J., XIX, 447.
Drewit, F. G. D., XIX, 270; XXI, 531.
Drews, A. C., H. XXI, 531.
Dreyer, J. L. E., XXI, 131-44, 531.
Drexl, F., XXI, 351.
Driesch, H., XIX, 277; XXI, 201, 531.
Drygalski, E. v., XIX, 558.
Duane, XX, 211.
Dubislaw, W., XIX, 435; XX, 559.
Dubnow, S., XIX, 579.
Dubreuil-Chambardel, L., XXI, 531.

Dubrisay, R., XXI, 454.
Duchesne, G. B. A., XX, 613.
Duchet, P., XXI, 374.
Dudley, P., XXI, 218 ff.
Dudley, R., XIX, 51.
Dürer, A., XIX, 503.
Dufourcq, A., XX, 578.
Dufrénoy, A., XIX, 309.
Duguet, F., XX, 499-503; XXI, 531.
Duhamel, G., XIX, 309.
Duhamel, J. P. F. G., XIX, 342.
Duhem, P., XIX, 262; XX, 367; XXI, 277, 285, 399, 532.
Dujarric de la Rivière, R., XXI, 532.
Dulong, P. L., XXI, 176.
Dumas, G., XXI, 387.
Dumas, J. B., XIX, 234, 349, 359.
Dumreicher, A. v., XIX, 583.
Duncan, J. G., XIX, 288.
Duncan, L. C., XIX, 402.
Dunin-Borkowski, S. v., XX, 539.
Dunlap, K., XIX, 447.
Dupin, C., XIX, 115, 117, 118, 120; XX, 183.
Dupront, A., XX, 540.
Durand, D. B., XIX, 486-502; XXI, 367, 532.
Durkheim, E., XIX, 242; XX, 605.
Durrande, J. B., XIX, 177.
Dussaud, R., XIX, 284, 433, 563; XX, 516, 522, 574; XXI, 532.
Dutcher, G. M., XIX, 308, 460; XXI, 532.
Dutrochet, H., XIX, 272; XXI, 392.
Dutschmann, G., XIX, 541.
Dutt, N. K., XIX, 570.
Duyvendak, J. J. L., XXI, 432.
Dvivedi, P., XIX, 475.
Dvivedi, S., XIX, 473, 475.
Dyck, W. v., XXI, 532.

E

Eastman, C. R., XXI, 532.
Eastman, G., XIX, 413.
Eastman, S., XIX, 409.
Eberhard, V., XX, 565; XXI, 410.
Ebermann, W., XXI, 436.
Ebert, M., XIX, 604.
Ebreo, L., XIX, 394.
Ebstein, E., XX, 526, 553.
Echard, J., XX, 335, 444.
Eck, L., XX, 547.
Eckardt, A., XIX, 566.
Eckert, M., XXI, 532.
Eckhart, XIX, 78, 79, 81; XX, 463.
Eckstein, G., XIX, 414; XXI, 532.
Eckstorm, H., XIX, 541.
Eddington, A. S., XIX, 298, 433, 454, 590; XX, 195, 199, 203, 204, 210; XXI, 142, 322-26.
Edelstein, L., XXI, 341.
Edgar, C. E., XIX, 410.
Edgerton, F., XIX, 425, 570.
Edgeworth, F. Y., XIX, 217.
Edib, H., XIX, 291, 423.
Edison, T. A., XIX, 410, 411, 413.
Edward, XXI, 151.
Edwardes, S. M., XIX, 571.
Edwards, A. M., XIX, 309.
Edwards, E. D., XX, 525.
Edwards, W. M., XX, 576.
Efros, I., XIX, 580.
Eggeling, J., XIX, 475.
Egidius, O. P., XXI, 151.
Eginitis, D., XXI, 414, 415.
Ehelolf, H., XX, 17.
Ehrenberg, XX, 235.
Ehrenberg, C. G., XX, 498.
Ehrenberg, R., XIX, 59.

Ehrlich, P., XXI, 565.
Eilers, W., XIX, 418.
Eilhauer, XX, 606.
Einarsson, S., XIX, 237-40.
Einstein, A., XIX, 203, 298, 414, 558, 587, 590; XX, 175, 196 ff. 488; XXI, 324, 443, 452, 511, 521, 533.
Eischkel, E., XIX, 269.
Eisenstein, J. D., XXI, 532.
Ekkehard, v. Aura, XIX, 256.
Elder, E. E., XX, 352.
Eliot, C. N. E., XXI, 533.
Elizabeth (Queen of Engl.), XIX, 45, 50, 51.
Ellis, C. A., XX, 72-160; XXI, 533.
Ellis, H., XIX, 306.
Elsbach, A. C., XXI, 533.
Emch, A., XIX, 164, 165.
Emerson, W., XIX, 125, 144.
Emiliani, G., XIX, 554.
Emmet, P. H., XIX, 552.
Empedocles, XXI, 342.
Endô, T., XXI, 533.
Eneström, G., XIX, 531; XX, 74; XXI, 562.
Engelbach, R., XIX, 416; XX, 42.
Engelbert of Admont, XXI, 151.
Engelhard v. Reichenbach, XIX, 491.
Engelmann, T. W., XX, 295.
Englert, L., XXI, 471.
Ennemoser, J., XXI, 394.
Enneper, A., XX, 183.
Enriques, F., XX, 511; XXI, 533.
Enriques, P., XX, 227, 243.
Entisberi, see William of Heytesbury.
Epictetos, XXI, 346.
Epicurus, XXI, 508.
Erato-Slutzki, XX, 232, 243.
Eratosthenes, XXI, 140, 415, 603.
Erdmann, J. E., XIX, 123.
Erhardt-Siebold, E. v., XIX, 562.
Ericson, L., XIX, 557.
Erigène, J. S., XX, 463.
Erkes, E., XX, 583; XXI, 432.
Erlanger, R. d', XX, 280-83; XXI, 533.
Erman, A., XIX, 416; XX, 20.
Ermerins, F. Z., XIX, 554.
Ernout, A., XXI, 533.
Erotianos, XXI, 342.
Errera, A., XX, 593.
Eschaich, A., XIX, 459.
Esenbeck, N. v., XXI, 125 ff.
Esparrogosa, XIX, 456.
Esser, A. A. M., XIX, 426, 542.
Essig, E. O., XIX, 302; XXI, 533.
Etzlaub, E., XIX, 487 ff.
Eucleides, XIX, 92, 189, 384, 507; XX, 53 ff., 495, 511; XXI, 342, 545, 604.
Eudoxos, XXI, 342.
Euler, L., XIX, 101-109, 140; XX, 72-160, 162 ff., 541; XXI, 228, 333, 575.
Euphorion, XXI, 342.
Eustathius of Thessalonica, XIX, 387,
Evans, A., XIX, 280.
Evans, C., XIX, 195.
Evans, J., XX, 548; XXI, 601.
Evans, W. H., XX, 534.
Evelyn, J., XX, 535; XXI, 378.
Evno of Würzburg, XXI, 151 f.
Ewald, G. H. A., XIX, 274.
Ewald, P. P., XX, 572.
Ewen, C. H. L' E., XIX, 450.
Ewing, J., XIX, 456.
Exell, A. W., XIX, 495.
Exteens, M., XXI, 533.
Eyck, J. v., XIX, 536.

Eyk, S. v. d., XIX, 406.
Eyre, L. B., XXI, 574.

F

Faber, G., XX, 497; XXI, 74.
Faber, K., XX, 538; XXI, 533.
Faber, J., XXI, 375.
Faber Stapulensis, J., XX, 458.
Fabre, J. H., XXI, 403, 559.
Fabricius, H. ab Acquapendente, XIX, 446, 455; XXI, 374 f.
Faddegon, J. M., XIX, 526; 588, 603; XX, 585.
Färber, E., XX, 445, 597; XXI, 187-202, 533 f.
Fagarola, P., XXI, 152.
Fagnano, C. di, XXI, 514.
Fagnet, M., XIX, 305.
Fahie, J. J., XXI, 534.
Fahrenheit, G. D., XX, 248; XXI, 519.
Fairbridge, D., XIX, 547.
Falco, V. de, XXI, 365.
Falconer, I., XXI, 459.
Fallersleben, H. v., XIX, 261.
Fairchild, T., XXI, 218 ff.
Fallopio, G., XIX, 455.
Fan Ch'ih, XXI, 490 f.
Fanu, W. R. le, XIX, 400.
al-Fārābī, XIX, 201-03, 290, 526, 527; XX, 62 ff., 280-83, 450-51, 518, 520; XXI, 31, 351, 352, 533, 534.
Faraday, M., XIX, 271, 405, 406, 552, 587; XX, 175, 211, 472-74, 560, 561; XXI, 534.
Faraj, abu 'l, XIX, 289; XX, 454-57; XXI, 540.
Faraj, ibn Salīm, XIX, 259.
Farès, B., XXI, 436.
Fāriḍ al-dīn 'Aṭṭar, XXI, 360.
Farini, C. L., XX, 610.
Farlow, W. G., XX, 568.
Farrington, B., XX, 528.
Farmer (family), XIX, 303.
Farmer, H. G., XIX, 309, 526, 583; XX, 280, 585; XXI, 352, 436, 534.
Faucci, U., XIX, 267, 398, 609.
Faure, J. L., XXI, 404.
Faurey, J., XIX, 543.
Faust, B.C., XIX, 551.
Favaro, A., XXI, 535, 539.
Favaro, G., XIX, 394, 403, 408, 446; XX, 553; XXI, 374 f.
Favre, A., XXI, 535.
Favre, B., XX, 583.
Faÿ, B., XIX, 400; XX, 556.
Fay, S. B., XIX, 308, 460; XXI, 535.
Fayet, G., XX, 595 f.
Fead, M. I., XXI, 461.
Feder, K., XXI, 371.
Fehr, H., XXI, 535.
Feldhaus, F. M., XX, 445, 447, 542, 566, 583, 598, 599, 608; XXI, 284, 535.
Feldhaus, G. W., XXI, 410.
Feldman, W. M., XIX, 208-12, 480; XXI, 433, 535.
Felkin, F. W., XX, 556.
Fell-Smith, C., XIX, 45, 50, 51.
Felsenthal, S., XX, 539.
Ferckel, C., XXI, 535.
Ferguson, A., XIX, 406, 414.
Ferguson, J., XIX, 258, 263; XXI, 535.
Feria, J. J., XIX, 608; XX, 611.
Fermat, P. de, XIX, 95, 96, 178, 231; XX, 530; XXI, 536.
Fernand-Laurent, C. J., see Laurent, F.

Ferner, B., XX, 408, 417.
Ferrand, G., XX, 586; XXI, 536.
Ferrand, J., XIX, 65.
Ferrannini, L., XXI, 394.
Ferrari, G. C., XIX, 447.
Ferrié, G., XXI, 410.
Ferrier, A., XIX, 53.
Ferrière, A., XXI, 536.
Ferron, M., XX, 553.
Fertig, G. J., XIX, 440.
Ferton, C., XXI, 536.
Fester, G., XXI, 536.
Fettweiss, E., XX, 593, 606; XXI, 536.
Feuereisen, A., XIX, 540.
Feyfer, F. M. G. de, XX, 600.
Fibonacci, XIX, 532; XX, 282.
Ficalho, de, XXI, 576.
Fichte, J. G., XXI, 559.
Fick, R., XIX, 274.
Ficker, H. v., XXI, 401.
Fiebig, P., XIX, 480.
Filippi, F. de, XIX, 399, 564.
Filippo degli Organi, XXI, 282.
Filliozat, J., XIX, 286.
Finaeus, O., XIX, 95, 364, 372, 375, 376.
Finck, H., XIX, 394 .
Finckh, L., XXI, 389.
Findorf, J. C., XX, 551.
Finkel, J., XXI, 436.
Finnegan, S., XIX, 408.
Finot, J., XX, 226, 242.
Finsen, N. R., XX, 505.
Fioravante of Bologna, XXI, 282.
Firdawsī, XIX, 528.
Firminus de Bellavalle, XXI, 152.
Firuz Shah, XIX, 474.
Fischel, W., XXI, 352.
Fischer, A., XX, 544.
Fischer, Em., XXI, 536.
Fischer, Er. G., XX, 547.
Fischer, H., XX, 539; XXI, 536.
Fischer, I., XX, 585.
Fischer, Jo., XIX, 487; XX, 267-74; XXI, 536.
Fischer, W., XX, 550.
Fischer, C. P., XX, 613.
Fisk, H. W., XIX, 414; XXI, 413.
Fitzgerald, G. F., XX, 195.
Flamsteed, J., XX, 471; XXI, 142.
Fleming, J. A., XIX, 277, 413; XX, 567; XXI, 536.
Fletcher, XIX, 53.
Flexner, A., XXI, 443.
Flexner, F., XIX, 415.
Fliess, XX, 238, 244.
Flight, J. W., XXI, 416.
Flint, W. P., XXI, 460.
Flores, F., XIX, 248.
Flores, J., XIX, 456.
Florian, J., XIX, 553; XXI, 457.
Flournoy, T., XXI, 536.
Fludd, R., XIX, 39, 55; XX, 532.
Flügel, G., XX, 283, 284, 516.
Foakes-Jackson, F. J., XIX, 255.
Fobes, F. H., XXI, 536.
Foerster, N., XXI, 537.
Fogelweder, S., XIX, 543.
Follet, R., XX, 582.
Fonahn, A., XXI, 537.
Fontana, F., XX, 549.
Fontenelle, B. de, XIX, 205-07; XXI, 380, 521.
Forbes, G., XIX, 54.
Forbes, G. S., XIX, 276.
Forbes, J. D., XX, 257.
Forbes, R. H., XXI, 464.
Ford, G. S., XXI, 442.
Ford, J. D. M., XXI, 372.
Forel, A., XXI, 537.
Forke, Al., XIX, 381; XXI, 432, 537.
Forke, An., XXI, 537.

Forman, S., XIX, 39, 54, 55.
Formichi, C., XXI, 537.
Forrer, E., XIX, 563.
Forsyth, A. R., XIX, 275.
Forsyth, W., XXI, 101 ff.
Forti, A., XXI, 402.
Forti, U., XXI, 389.
Fortune, R. F., XIX, 306.
Fosseyeux, M., XIX, 394; XXI, 394.
Foster, M. L., XXI, 362.
Foster, R., XIX, 52, 55.
Foster, W., XXI, 423.
Fotheringham, J. K., XIX, 560; XXI, 340.
Fouqué, F., XIX, 309.
Fourcroy, A. F., de XXI, 191 ff.
Fourier, J. B. J., XIX, 116, 217; XX, 153, 167, 246, 255 ff.; XXI, 177.
Fournier d'Albe, E. E., XXI, 537.
Fowler, L. F., XIX, 554.
Fowler, R. H., XIX, 590.
Fox, G. G., XIX, 392.
Fox, T., XX, 505.
Fracastoro, G., XIX, 251, 455, 538; XXI, 371, 614.
Fraenkel, A., XIX, 212; XX, 564; XXI, 417.
Fraenkel, S., XX, 284.
Francé, R. H., XXI, 411.
Francesco da Assisi, XIX, 259; XXI, 528.
Francesco Balducci Pegolotti, XXI, 248.
Franchini, G., XIX, 611.
Franco, P., XIX, 537.
Franco de Liège, XIX, 187.
Frank, E., XXI, 537.
Frank, J., XIX, 608; XX, 610.
Frank, J. P., XIX, 608; XX, 610.
Frank, M., XXI, 61, 523.
Franke, J., XIX, 542.
Franke, O., XIX, 577; XXI, 432.
Frankfort, H., XIX, 279.
Frankl, T., XIX, 584; XX, 586.
Frankland, E., XIX, 207.
Franklin, B., XIX, 246, 270, 333, 549; XX, 246, 249 ff., 542, 545, 556; XXI, 81, 83 ff.
Franklin, K. J., XX, 537, 539.
Franklin, P., XX, 571.
Franks, J. P., XXI, 387.
Franz, E., XX, 556.
Franz, S. I., XIX, 447.
Frazer, J. G., XXI, 413, 537.
Fraser-Harris, D. F., XIX, 70, 71, 552; XXI, 379.
Frederick II v. Hohenstaufen, XIX, 258; XXI, 545.
Frédéricq, L., XXI, 465.
Frémont, C., XX, 574.
Frenet, F., XX, 169, 171.
Frere, C. F., XXI, 537.
Fréret, N., XX, 483.
Freshfield, D. W., XXI, 538.
Fresnel, A. J., XX, 167.
Freud, S., XIX, 457; XX, 569; XXI, 538.
Frick, H., XXI, 538.
Friendenthal, H., XXI, 199.
Friendenwald, J., XX, 553.
Friedman, H. B., XIX, 271.
Friedmann, XX, 227, 242.
Friedmann, A., XXI, 324.
Friedrich, C. J., XX, 533.
Fries, T. M., XXI, 538.
Frisch, R., XX, 608.
Frischeisen-Köhler, M., XXI, 538.
Fritz, K. v., XX, 510.
Froehner, R., XIX, 534; XX, 523 f., 544.
Froissart, J., XIX, 392.
Frost, W.H., XIX, 313; XXI, 521.

Froude, W., XXI, 399.
Fuchs, M., XIX, 309; XXI, 538.
Fürth, E., XX, 563.
Fujisawa, XX, 307.
Fulbert de Chartres, XXI, 564.
Fulcher de Chartres, XIX, 531.
Fulton, J. F., XIX, 204-05, 397; XX, 535, 536, 553; XXI, 394, 538.
Fulton, R., XXI, 577.
Funk, W., XX, 542.
Furlani, G., XIX, 388, 531, 564; XXI, 354.
Fyzee, A. A. A., XIX, 584.

G

Gabelentz, H. C. v. d., XIX, 274.
Gabius, P., XXI, 538.
Gabriel, A., XX, 528.
Gabrieli, G., XIX, 598; XXI, 539.
Gadd, C. J., XX, 22.
Galbiati, J., XX, 513.
Galenos, XIX, 380, 381, 384, 524, 525, 587; XX, 221, 496; XXI, 341, 348, 568; and passim.
Galileo, G., XIX, 122, 231, 264, 265, 541, 587; XX, 193, 246, 247, 249, 496, 497; XXI, 74, 214, 242, 244, 275, 280, 376, 505, 534, 578, 613.
Gallois, L., XIX, 487.
Galloway, J. J., XX, 498-99; XXI, 539.
Galois, E., XX, 167, 187; XXI, 388.
Galpin, F. W., XIX, 309.
Galton, F., XXI, 578.
Galvani, L., XIX, 608; XX, 610.
Gamaches, de, XX, 385 f.
Gandz, S., XIX, 192, 193, 208-12, 428, 435, 580, 584; XX, 30, 274-80; XXI, 539.
Gaṇeśa, XIX, 472, 476.
Gaṅgādhara, XIX, 472.
Gāṅguli, S., XIX, 426, 571; XX, 582; XXI, 429, 539.
Gann, T., XIX, 308.
Gans, R., XXI, 410.
Garbedian, H. G., XXI, 443.
García del Real, E., XXI, 539.
Gardiner, G. S., XXI, 457.
Gardiner, S., XXI, 237.
Gardner, C. S., XIX, 197, 427.
Gardner, E. W., XXI, 416.
Garner, V. C., XX, 526.
Garrett, H. L. O., XIX, 571.
Garrett, J. A., XXI, 451.
Garrison, F. H., XIX, 557, 571; XX, 611; XXI, 467, 539.
Garstang, J., XIX, 423.
Garver, R., XXI, 397.
Gathorne-Hardy, G.M., XIX, 535; XXI, 540.
Gaubius, H. D., XX, 543, 554.
Gaule, J., XIX, 27, 35, 37.
Gaudefroy-Demombines, M., XXI, 540.
Gaufridus de Meldis, see Geoffroy de Meaux.
Gaultier, J. F., XIX, 269; XXI, 468.
Gauss, C. F., XIX, 109; XX, 161-67, 174, 180 ff., 488, 559 f.; XXI, 333.
Gavira, J., XX, 543.
Gay-Lussac, J. L., XX, 561.
Ǧazla, ibn, XIX, 290.
Geber, XIX, 259; XXI, 14, 152, and see Jābir ibn Ḥayān.
Gebhardt, M., XX, 547, 550.
Geddes, P., XXI, 401.
al-Gedosi, XX, 588.

Géhin, A., XXI, 543.
Geijsbeek, J. B., XXI, 285.
Geikie, A., XXI, 540.
Geiser, S. W., XXI, 392.
Geismar, E., XXI, 396.
Geitzkofler, L., XXI, 375.
Gemayel, A., XX, 611.
Gemma, F., XIX, 95; XX, 443.
Gennaro, S. di, XIX, 264.
Genouillac, H. de, XIX, 279.
Gentile da Foligno, XXI, 152.
Genty, M., XIX, 406.
Geoffroy, C. F., XX, 543.
Geoffroy, C. J., XX, 544.
Geoffroy St. Hilaire, E., XIX, 271.
Geoffroy de Meaux, XXI, 152.
Georg v. Klosterneuburg, XIX, 498.
George of Trebizond, XXI, 153.
Georges-Berthier, A., XXI, 540.
Gerardo of Cremona, XIX, 202, 384, 509; XX, 273, 451; XXI, 260, 599.
Gerardus de Silteo = de Sileto, XXI, 153.
Gerbert, XIX, 181, 182, 186 ff.; XX, 579; XXI, 353.
Gerhard, W. W., XIX, 246.
Gerhardt, C. I., XIX, 123; XXI, 200, 540.
Gerlach, J. E., XXI, 540.
Gerlach, W., XXI, 410.
Gerland, E., XXI, 540.
Germain, L., XXI, 540.
Germain, S., XX, 167.
Germez, D., XIX, 541.
Gesner, J., XXI, 544.
Gessler, J., XIX, 261; XX, 524.
al-Ghāfiqī, Aḥmad ibn Muḥ., XIX, 388; XX, 452, 454-57; XXI, 540.
al-Ghāfiqī, Muḥ. i. Qassūm i. Aslam, XIX, 388; XX, 456.
Giesecke, W., XIX, 416.
al-Ghazzālī, XIX, 257, 290; XXI, 538, 541.
Ghesel, J., XX, 532.
Gheyn, J. de, XXI, 283.
Ghosh, J., XIX, 571.
Ghoshal, U. N., XIX, 564, 571.
Ghurye, G. S., XIX, 571.
Giacosa, P., XX, 443.
Giannini, G., XXI, 392.
Gibb, H. A. R., XIX, 258, 530, 531, 584; XX, 524.
Gibert, C. M., XX, 505.
Gibson, T., XXI, 376.
Gibson, W., XIX, 553.
Gidon, F., XIX, 458, 599; XXI, 522.
Giffard, R., XXI, 468.
Gifford, A. C., XX, 596.
Gifford, G., XIX, 543.
Gilbert, E. W., XXI, 392.
Gilbert, H., XIX, 541.
Gilbert, W., XIX, 265; XXI, 578.
Gildemeister, J. G., XIX, 274.
Giles, L., XX, 518; XXI, 541.
Gillain, O., XXI, 541.
Gille, M., XIX, 398.
Gillepsie, J. E., XXI, 461.
Ginsburg, B., XXI, 440, 541.
Ginsburg, J., XIX, 535, 539, 540, 588; XX, 513, 527; XXI, 377, 447.
Ginzburg, S., XX, 545.
Giordano, D., XX, 612.
Giorgi, G., XXI, 304.
Giorgio Anselmi of Parma, XXI, 153.
Giovanni da' Fontana, XIX, 262; XX, 260, 335-36; XXI, 153, 512, 605.
Giovanni Pediasimo, XXI, 365.
Girard, A., XIX, 231; XXI, 248, 250, 253 ff.

Girardi, M., XX, 552.
Girindranāth, M., XIX, 571.
Girolamo da Carpi, XXI, 521.
Glaenzer, R., XIX, 263.
Glanvill, J., XIX, 399; XX, 355, 540.
Glathe, A., XX, 583.
Glauber, R., XXI, 190.
Glesinger, A., XX, 553.
Gley, E., XX, 237, 244.
Glinkov, R., XXI, 385.
Gliozzi, M., XX, 527, 566, 594; XXI, 448.
Glisson, F., XXI, 58, 67.
Glotz, G., XIX, 418.
Glouberman, E., XIX, 552.
Glover, J. W., XXI, 330.
Gnirs, A., XX, 514.
Goblet, Y. M., XX, 537, 603.
Goblot, E., XXI, 541.
Godard, A., XIX, 424.
Godbey, A. H., XIX, 480.
Godeaux, L., XX, 593.
Goditski-Tsvirko, A. M., XXI, 285.
Godlewski, E., XXI, 401.
Goebel, C. v., XXI, 412.
Göffe, XX, 223.
Görres, J., XXI, 396.
Goethals, M., XX, 512.
Goethe, A., XX, 223, 242.
Goethe, J. W., XIX, 270, 404, 407, 409, 410, 551; XX, 287-90, 426-35, 547, 550, 551, 552, 555, 556; XXI, 371, 383, 387, 390, 392, 522, 524, 556, 609.
Goethe, O. v., XX, 431, 434, 435.
Goetz, G., XX, 513.
Goetz, H., XIX, 571.
Goguel, M., XXI, 541.
Goldbeck, E., XX, 17.
Goldschmidt, D., XIX, 411.
Goldschmidt, G., XX, 598.
Goldschmidt, V., XX, 596.
Goldstein, H. I., XX, 613.
Goldstein, M., XX, 575.
Goldziher, I., XXI, 541.
Goldwiz, S., XXI, 386.
Golgi, C., XIX, 608; XX, 610.
Golovensky, D. I., XIX, 480.
Gomes Teixeira, F., XXI, 397.
Gomme, A., XIX, 427.
Gompers, S., XIX, 244.
Gonçal de Reparaz, XXI, 541.
González Palencia, A., XIX, 202, 606; XX, 450-51; XXI, 534, 541 f.
Goodfellow, G. F., XXI, 407.
Goodman, N. G., XIX, 549; XX, 542.
Gordlewsky, W., XXI, 433.
Gordon, H. L., XIX, 288.
Gordon, N. E., XIX, 276.
Gorgone, G., XX, 563.
Gosson, S., XIX, 27.
Gottheil, R., XIX, 290, 584.
Goudeau, L., XXI, 468.
Gough, J. W., XIX, 264; XX, 534.
Gouhier, H., XXI, 396.
Goulard, R., XIX, 548, 608; XX, 539; XXI, 379, 382, 468.
Gould, A. A., XIX, 409.
Gould, R. T., XXI, 542.
Gour, H. S., XIX, 571.
Govinda, XIX, 472.
Gow, A. S. F., XIX, 281.
Gowen, H. H., XIX, 286.
Gower, J., XIX, 392.
Graaf, N. de, XIX, 267.
Graaf, R. de, XX, 498.
Graebe, C., XXI, 542.
Graesse, J. G. T., XXI, 542.
Graf, Ad., XIX, 198 f.
Graf, Ar., XIX, 507, 448.
Graham, T., XIX, 299.

Gralath, D., XX, 249.
Gram, H. C. J., XIX, 609.
Grammaticos, J., XX, 311; and see Philoponos, J.
Grammont, A. de, XIX, 309.
Grancsay, S. V., XIX, 461.
Grandami, J., XX, 364.
Grandi, E., XIX, 608; XX, 610.
Grandi, G., XIX, 268.
Grandidier, A., XIX, 309.
Grandmaison, L. de, XXI, 542.
Granet, M., XIX, 578.
Grapow, H., XIX, 416; XX, 20.
Grasset, J., XXI, 542.
Grassmann, H., XX, 576 f.
Grassmück, J., XX, 568.
Gratius, XX, 513.
Graunt, J., XIX, 549.
Gravelaar, N. L. W. A., XXI, 286.
Graves, B., XIX, 302.
Graves, J. T., XX, 173, 174.
Gravier, C., XXI, 385.
Gray, L. C., XXI, 459.
Gray, S., XX, 249; XXI, 229.
Grayzel, S., XXI, 361.
Greef, R., XX, 542.
Green, R. L., XX, 565.
Greenaway, J., XIX, 207.
Greene, E. L., XXI, 402.
Greene, R., XIX, 43, 44, 49, 58, 65.
Greenstreet, W. J., XXI, 542.
Greenwood, I., XXI, 380.
Greenwood, M., XIX, 549, 609.
Greenwood, T., XIX, 390; XXI, 446.
Grefinger, W., XIX, 394.
Grégoire, A., XIX, 435.
Gregory, D. F., XIX, 148; XX, 173.
Gregory, G. de, XXI, 153.
Gregory, J., XIX, 128, 141, 236.
Gregory, J. C., XXI, 389.
Gregory, J. W., XXI, 412.
Greig, J. Y. T., XX, 545, 546.
Grenard, F., XIX, 263.
Griaule, M., XXI, 468.
Grierson, G. A., XIX, 572.
Griffith, F. L., XXI, 409.
Grimaux, L. E., XIX, 330, 339.
Grimm, J., XIX, 274; XX, 464.
Groenman, A. W., XXI, 433.
Grohmann, A., XIX, 416; XXI, 437.
Gronwall, T. H., XIX, 413, 571.
Groos, K., XIX, 447.
Gros, H., XIX, 542.
Grossart, A. B., XIX, 36.
Grosseteste, R., XIX, 19-25; XXI, 361, 604.
Grotius, H., XXI, 244, 255, 259, 260, 283.
Grotius, J., XXI, 244, 250.
Grousset, R., XIX, 572; XXI, 542.
Grove, W. B., XIX, 411.
Grove, W. R., XX, 258; XXI, 177 ff.
Grüby, D., XIX, 409.
Grunicke, L., XIX, 453.
Guaynerius (Antonio Guaineri), XXI, 153.
Guareschi, I., XXI, 542 f.
Guarino da Verona, XIX, 191; XXI, 535.
Guasti, T. C., XX, 547.
Gudger, E. W., XXI, 543.
Guelliot, O., XX, 532.
Günther, S., XIX, 486, 495; XXI, 286.
Guérin, M., XIX, 255.
Guerra, G. del, XIX, 534; XXI, 362.
Guettard, J. E., XIX, 332, 335, 340 ff.
Guglielmo da Solagna, XIX, 534.

Guicciardini, F., XXI, 372.
Guicciardini, P., XXI, 372.
Guillain, G., XX, 569.
Guilland, R., XXI, 365.
Guillaume, A., XIX, 583.
Guillaume d'Auvergne, XX, 479.
Guillaume le Nautonnier, XIX, 235 f.; XXI, 255.
Guillaume de Rubruck, XIX, 260; XXI, 363.
Guillelmus Anglicus, XIX, 385; XXI, 362.
Guillelmus Camerarius, XX, 450.
Guillemin, E. A., XIX, 406; XXI, 543.
Guilleminot, H., XXI, 543.
Guilpin, E., XIX, 543.
Guillotin, J. I., XXI, 386.
Guinet, L., XIX, 240-41, 261, 254, 267, 286, 293, 295, 297, 299, 300, 302, 305, 309, 310, 314, 410, 436, 448, 458, 532, 547, 551, 558, 592, 605; XX, 528, 533, 534, 541, 548, 569, 570, 571, 577, 602, 605, 610; XXI, 370, 385, 399, 415, 444, 445, 446, 447, 452, 466, 468, 469, 543, 619; and passim.
Guitard, E., XXI, 543.
Gukowski, M. A., XX, 589.
Gulat-Wellenburg, W. v., XXI, 543.
Gulick, A., XXI, 401.
Gulick, J. T., XXI, 401.
Gundel, W., XIX, 590.
Gundisalvo, D., XIX, 202.
Gunn, B., XX, 19, 36, 42.
Gunn, J. A., XIX, 278.
Gunther, R. T., XX, 310-16, 492-95; XXI, 543 f.
Gurlt, E., XXI, 61.
Guthe, C. E., XIX, 436.
Guttmann, M., XIX, 385 f.
Gwynn, S., XXI, 408.
Györy, T. v., XIX, 404.

H

Haagensen, C. D., XIX, 386; XXI, 358.
Haas, A., XIX, 437; XX, 189.
Ḥabash al-Ḥāsib, XIX, 508. ff.
Haberling, W., XIX, 411.
Habington, W., XIX, 53, 54.
Hadassi, XXI, 356.
Hadfield, R. A., XIX, 271.
Hadidian, Y. H., XXI, 344.
Häckel, E., XX, 293, 299; XXI, 199, 593.
Häfker, H., XX, 596.
Haefliger, J. A., XX, 447.
Haegerty, J. J., XXI, 468.
Hael, E., XXI, 394.
Haendcke, E., XX, 563.
Händler, E., XIX, 543.
Haenisch, E., XIX, 566.
Haering, T. L., XX, 557.
Haeser, H., XXI, 61, 551.
Hagen, H., XX, 521.
Hagen, J. G., XIX, 297.
Haggard, H. W., XIX, 456.
Hahnemann, S., XXI, 394, 395, 396.
Haiṯham, ibn, XIX, 296; XX, 496; XXI, 227, 260
al-Hajjāh ibn Yūsuf ibn Maṭar, XIX, 383-84; XX, 278, 279.
al-Ḥākim, XX, 520.
Hakluyt, R., XXI, 577.
Halbwachs, M., XX, 605.
Haldane, J. S., XIX, 454.
Hale, G. E., XIX, 297; XXI, 400, 544.
Hale, H., XIX, 276.

Hale, W. J., XXI, 410.
Hales, S., XXI, 523, 590.
Hall, see Line, F.
Hall, G. S., XXI, 544.
Hallema, A., XXI, 394.
Haller, A. v., XX, 498, 544, 554.
Halley, E., XIX, 236, 590; XX, 470-72; XXI, 378, 544, 591.
Halliwell, J. O., XIX, 410; XXI, 530.
Halphen, L., XIX, 283, 420-21.
Halsted, G. B., XIX, 230.
Halsted, W. S., XXI, 563.
Haly, XXI, 154.
Hambly, W. D., XIX, 599.
al-Hamdānī, H. F., XXI, 353.
Hamelin, O., XX, 222, 242.
Ḥamīd Aḥmad ibn Muḥ. al-Nasha'ī, abū, XX, 452.
Hamilton, C. H., XIX, 567; XX, 482-84.
Hamilton, W. R., XIX, 148-53, 271, 406; XX, 173, 177, 197, 201; XXI, 388, 591.
al-Ḥammār, ibn, XIX, 290.
Hammer-Jensen, I., XXI, 544.
Hammond, H., XIX, 126.
Hamon, J., XX, 533.
Hamui, R., XIX, 526.
Ḥamza al-Magribī, XIX, 512.
Hanckewitz, A. G., XX, 418.
Hancock, XIX, 435.
Handelsman, M., XIX, 283.
Hankel, H., XIX, 509.
Hansemann, D. v., XX, 223, 230, 243.
Hansen, XIX, 236.
Hansen, A., XXI, 544.
Hansen, A. H., XX, 608.
Hansen, G. A., XX, 505.
Hantzsch, B., XXI, 402.
Hara, XIX, 288.
Harada, Y., XIX, 427.
Harcourt, M. B. d', XXI, 544.
Harcourt, R. d', XXI, 544.
Harding, M. C., XXI, 544.
Hardy, G. H., XIX, 275.
Hare, E. S., XXI, 394.
al-Ḥarīrī, XIX, 256.
Harland, P. J., XIX, 277.
Harlow, V. T., XIX, 543; XX, 531.
Harnack, A. v., XIX, 454.
Harpestrang, H., XXI, 552.
Harradon, H. D., XIX, 414; XXI, 413.
Harriot, T., XIX, 231; XXI, 520.
Harris, H., XX, 611.
Harrison, F., XXI, 566.
Harrison, F. M., XX, 613.
Harrison, G. B., XIX, 46.
Harrison, J., XIX, 236.
Harrison, J. H., XIX, 408.
Hart, I. B., XIX, 262; XX, 527.
Harting, P., XX, 497.
Hartley, D., XIX, 421, 541.
Hartley, H., XX, 565; XXI, 384.
Hartlieb, J., XX, 479.
Hartmann, XX, 238, 245.
Hartmann, A., XIX, 461.
Hartmann, E. v., XX, 296.
Hartmann, L., XX, 547.
Hartmann, R., XIX, 164.
Hartner, W., XIX, 290.
Hartog, P. J., XXI, 383, 384.
Hartshorne, C., XIX, 217, 220; XXI, 578.
Hartsoeker, N., XX, 498; XXI, 228.
Hartung, J. H. A., XXI, 395.
Harvey, W., XIX, 265, 545, 587; XX, 359, 498, 532, 533; XXI, 58, 578.
Harvey-Gibson, R. J., XXI, 545.
Harward, M. J., XXI, 343.

Ḥasan saḥl ibn Muḥ. as-Sahlī, abu'l, XXI, 20, 22.
Haskins, C. H., XXI, 545.
Hasluck, F. W., XXI, 342, 468, 472.
Hassinger, H., XIX, 445.
Hassler, C. D., XX, 526.
Hassler, F. R., XXI, 520.
Hastings, C. S., XIX, 410, 555.
Hatch, W. J., XIX, 572.
Hatfield, E. J., XXI, 582.
Hatfield, H. S., XIX, 304.
Hathaway, C. M., XIX, 44, 45, 50.
Hauben, S. S., XXI, 454.
Haüy, R. J., XIX, 309.
Haug, E., XIX, 309.
Haug, M., XIX, 274.
Hautefeuille, P., XIX, 309.
Hautz, J. F., XIX, 365.
Hawes, S., XIX, 56.
Ḥawqal, ibn, XXI, 352 f.
Hay, D., XXI, 468.
Hayashi, T., XXI, 433.
Hayck, T. H. da, XX, 529.
Haydon, A. E., XIX, 424.
Hayes, J. G., XXI, 412.
Hayward, F. H., XIX, 293.
Ḥazm, ibn, XIX, 289; XX, 519; XXI, 354, 572.
Heape, W., XIX, 302.
Hearnshaw, F. J. C., XXI, 545.
Heath, A. E., XIX, 293; XXI, 423, 545.
Heaviside, J., XX, 554.
Heawood, E., XIX, 548; XXI, 371, 373, 374, 545.
Hébert, E., XIX, 309.
Hébert, L., XXI, 468.
Hebra, F., XX, 505.
Hecker, J. F. C., XIX, 312; XXI, 551.
Hedfors, H., XX, 517.
Hedin, S., XIX, 565.
Heegard, P., XX, 575.
el-Hefni, M., XX, 517, 519.
Hegel, G. W. F., XIX, 216, 409; XX, 557.
Heiberg, J. L., XIX, 384, 515; XXI, 545, 546, 582.
Heide, W., XIX, 396 f.
Heidel, W. A., XIX, 196; XXI, 220-24.
Heig, XX, 229, 243.
Heikel, I. A., XX, 573.
Heimann, B., XX, 582.
Heingarter, C., XXI, 154.
Heischkel, E., XXI, 394.
Heisenberg, W., XIX, 295; XX, 490, 595.
Helbronner, P., XXI, 546.
Helderman, L. C., XIX, 270; XX, 557.
Hellinga, G., XIX, 458, 610; XX, 614; XXI, 472.
Hellman, C. D., XIX, 268; XXI, 546.
Hellmann, G., XIX, 365, 367; XXI, 255, 546.
Hellmann, L., XX, 543.
Helmcken, J. S., XXI, 468.
Helmholt, H. F., XXI, 606.
Helmholtz, H. v., XIX, 295, 411; XX, 164, 180 ff., 280-90, 544; XXI, 546.
Helvétius, J., XIX, 266; XX, 495; XXI, 574.
Henderson, J. B., XXI, 399.
Hendrichs, F., XIX, 594.
Hendrie, R., XIX, 387.
Henley, W., XX, 249.
Henn, A. W., XXI, 546.
Henne am Rhyn, O., XIX, 487.
Hennig, R., XIX, 591.
Henri, V., XXI, 444.

Henry, XXI, 154.
Henry VII (of Engl.), XIX, 45.
Henry VIII (of Engl.), XIX, 45.
Henry of Hesse, XXI, 154-55.
Henry, C., XXI, 413, 546.
Henry, J., XIX, 406; XX, 566.
Henschel, A. W. E. T., XIX, 312; XXI, 546, 551.
Henson, XIX, 405.
Hentschel, E., XXI, 412.
Heny, XIX, 416; XXI, 581.
Hepburn, J. S., XIX, 550.
Herbart, J. F., XX, 18.
Hercus, E. O., XXI, 185.
Herdman, W. A., XXI, 546.
Héricourt, J., XXI, 406.
Heriger of Lobbes, XIX, 187.
Hérigone, P., XIX, 231.
Hering, E., XX, 296.
Hérissay, J., XIX, 408.
Hermann, XXI, 155.
Hermann the Lame, XX, 492, 579; XXI, 531.
Hermannsson, H., XIX, 237-40, 445; XXI, 546.
Hermannus, C., see Hermann the Lame.
Hermes, XXI, 34, 155.
Hermes Trismegistos, see Trismegistos, H.
Hernshaw, F. J. C., XIX, 308.
Herodotos, XXI, 8, 11.
Heron of Alexandria, XIX, 298; XXI, 424.
Héron-Allen, E., XIX, 444; XXI, 547.
Herrad of Landsberg, XIX, 388.
Herrick, J. B., XX, 524.
Herringham, W., XIX, 545; XX, 532.
Herrmann, A., XIX, 565; XX, 269, 514; XXI, 395.
Herschel, C., XXI, 384.
Herschel, F. W., XX, 209; XXI, 132, 133, 140 ,141, 142, 228, 384.
Hertwig, R., XX, 228, 243.
Hertz, A., XIX, 582.
Hertz, H. R., XIX, 587.
Hervé, G., XIX, 411; XX, 572.
Herzfeld, K. F., XIX, 395.
Herzog, R., XIX, 418.
Hess, J. J., XXI, 437.
Hess, W., XX, 151, 154.
Hessen, B., XX, 535.
Hethoum, XXI, 365.
Heuland, C., XX, 550.
Heun, XX, 149, 151.
Heusinger, C. F., XIX, 312; XXI, 551.
Heuten, G., XIX, 279.
Heuzey, L., XXI, 12, 13.
Hevelius, J., XX, 471.
Hewer, R. R., XIX, 302.
Heydon, C., XIX, 27, 53, 61 ff.
Heyl, P. R., XIX, 590.
Heymann, B., XIX, 411.
Heymans, G., XIX, 447.
Heytesbury = Histlibyry, see William of Heytesbury.
Heyting, A., XX, 592.
Hickmann, H., XXI, 395.
Higgins, B., XX, 417.
Higginson, A., XIX, 412; XX, 463.
Highmore, N., XX, 364.
Hilbert, D., XIX, 295, 413; XX, 486, 491; XXI, 397, 409.
Hildebrandt, K., XIX, 407.
Hildegard v. Bingen, XIX, 257.
Hill, C. F., XX, 495-97; XXI, 547.
Hill, L. .E, XIX, 595.
Hill, M. J. M., XXI, 547.
Hill, W. D. P., XIX, 572.
Hillebrand, W. F., XIX, 275.
Hillebrandt, A., XIX, 572.

Hilleström, P., XX, 547.
Hiltbeitel, A. M., XX, 162.
Hincks, E., XXI, 408.
Hipparchos, XIX, 94, 158, 298; XXI, 344, 424.
Hippias of Elis, XIX, 380.
Hippocrates, XIX, 587; XX, 221, 262, 509; XXI, 35, 341, 342, 547.
Hippocrates (pseudo), XXI, 155.
Hippolyte-Boussac, P., XXI, 416.
Hirmer, M., XXI, 412.
Hirsch, G. C., XX, 238, 244; XXI, 395.
Hirschfeld, M., XXI, 547.
His, W., XXI, 404.
Hitti, P. K., XXI, 547.
Hinan-tsang, XXI, 350.
Hjelmslev, J., XX, 535.
Hjelt, E., XXI, 547.
Hjort, J., XIX, 596.
Hobbs, W. H., XIX, 553.
Hobbhouse, R. W., XXI, 395.
Hobhouse, E., XX, 540.
Hobley, C. W., XXI, 412.
Hobson, E. W., XIX, 275, 509; XXI, 547.
Hobson, R. L., XIX, 428, 585.
Hocart, A. M., XIX, 569.
Hochheim, A., XIX, 513.
Hochreutiner, B. P. G., XIX, 551.
Hodge, XX, 224, 242.
Hodges, R., XX, 534.
Hodgins, E., XIX, 300.
Hodgkinson, W. R. E., XIX, 207,
Hodgson, J. E., XXI, 547.
Hodgson, S. H., XX, 214 f.
Hodows, L., XXI, 432.
Hoecker, R., XIX, 460.
Höffding, H., XIX, 447.
Hölder, O., XXI, 547.
Hoernes, M., XX, 437; XXI, 548.
Hoeven, C. P. v. d., XIX, 554.
Hoeven, J. v. d., XIX, 554; XX, 532, 563.
Hoffmann, B., XXI, 402.
Hoffmann, E., XIX, 419; XXI, 211-13.
Hoffmann, G., XXI, 425.
Hoffmann, J. C., XIX, 397.
Hofmayer, P., XIX, 394.
Hohenberger, A., XIX, 572.
Holand, H. R., XIX, 535.
Holcomb, R. C., XXI, 548.
Holländer, E., XXI, 548.
Holland, XXI, 229.
Hollandus, I., XXI, 373.
Hollandus, J. I., XXI, 373.
Holmes, O. W., XIX, 247, 554; XX, 504.
Holmes, S. J., XX, 562.
Holmes, T. J., XX, 540.
Hollsteiner, J., XXI, 425.
Holmyard, E. J., XIX, 401, 592; XX, 302-05, 517; XXI, 437, 508, 548.
Holt, An., XXI, 81.
Holt, Ar., XXI, 9.
Holzhausen, P., XXI, 395.
Hombert, M., XIX, 460.
Homen, L., XXI, 371.
Homo, L., XIX, 281, 419.
Hondius, J., XX, 268; XXI, 278.
Honeywell, R. J., XIX, 271.
Honigmann, E., XIX, 383, 386, 388, 389, 446, 496; XX, 269; XXI, 548.
Hooke, R., XX, 246, 247, 350 f.; XXI, 227, 229.
Hooke, S. H., XIX, 428.
Hoops, J., XXI, 548.
Hoover, H. C., XXI, 548.
Hoover, L. H., XXI, 549.
Hopkins, A. J., XXI, 549.
Hoppe, E., XXI, 585.

Hoppe, R., XX, 183.
Hopwood, A. T., XIX, 305.
Horak, B., XIX, 545.
Horapollon, XIX, 382.
Horber, C., XIX, 197-99; XXI, 413.
Horsley, V., XIX, 412.
Hort, G. M., XIX, 51.
Hortulanus, XXI, 50.
Horwitz, H. T., XIX, 559, 594.
Hosaim el Islami, XIX, 385.
Hoste, I. L., XXI, 270.
Hotchkiss, W. O., XXI, 462.
Hotta, M., XXI, 433.
Hourticq, L., XXI, 549.
Housman, A. E., XXI, 344.
Houssay, F., XXI, 515, 549.
Houtsma, M. T., XX, 284; XXI, 351.
Hovelaque, E., XXI, 549.
Hovgaard, W., XXI, 549.
Howard, H., XIX, 27, 28, 29, 32, 33, 34, 37, 38, 53.
Howard, H. N., XIX, 423.
Howard, L.O., XIX, 302; XX, 603; XXI, 549.
Howarth, H. E., XXI, 549.
Howell, K. M., XIX, 610.
Howell, W. B., XXI, 468.
Hozayen, S. A. S., XIX, 585.
Hrotsvitha, XXI, 353 f.
Hrozný, F., XIX, 284.
Hsüeh-hai lai-pien, XX, 327.
Hsüan-Tsang, XIX, 258.
Hua shan lao-jên, see Chia Ming.
Huai Nan Tzŭ, XIX, 525.
Huang-Ti, XIX, 525.
Hubert, R., XXI, 549.
Hudhail, ibn, XX, 587; XXI, 549.
Hudde, J., XIX, 364.
Hudson, F., XIX, 286, 578.
Hudson, T. J., XX, 215.
Hübotter, F., XX, 480 ; XXI, 549 f.
Huet, P. D., XX, 540.
Hugh of Siena, XXI, 155.
Hughes, A. A., XIX, 594.
Hughes, D. E., XX, 566.
Hugo, S., XXI, 66.
Huguet, A., XXI, 375.
Hulme, E. W., XIX, 536; XX, 578; XXI, 463.
Humbert, P., XIX, 298; XX, 467; XXI, 399.
Humboldt, A. v., XX, 562.
Hume, D., XIX, 140, 216; XX, 545, 546.
Hume, E. D., XXI, 404.
Hume, E. E., XIX, 457.
Hummel, A. W., XIX, 285; XX, 581.
Ḥunain ibn Isḥāq, XIX, 380-81, 384; XXI, 539, 550, 569.
Hunger, F. W. T., XX, 539.
Hunt, T., XIX, 408.
Hunt, T. S., XXI, 402.
Hunter, A., XXI, 114.
Huntingford, G. W. B., XXI, 598.
Hurd-Mead, K. C., XX, 611; XXI, 468, 550.
Hurgronje, S., XX, 263; XXI, 322.
Hurry, J. B., XXI, 308, 550.
Hurtado, J., XIX, 606.
Husain, M. H., XIX, 384 f.; XXI, 550.
Husain, Y., XXI, 361.
Husemann, T., XXI, 550.
Hussein, K. el-Din, XXI, 411.
Husserl, E. G., XIX, 265.
Hutten, U. v., XX, 529.
Huxley, A., XXI, 402, 445.
Huxley, J. S., XIX, 454.
Huxley, T. H., XIX, 404; XX,

297-98, 289-300, 568; XXI, 402, 445, 508, 579.
Huygens, Chr., XIX, 96, 97, 98, 236, 266, 546; XXI, 213-15, 378, 550, 585,

I

Ibn, see next word of name.
Idelsohn, A. Z., XIX, 196.
al-Idrīsī, XIX, 34, 388.
Ikehara, S., XX, 305-07.
Ikhnaton, XXI, 312, 313.
Iiberg, J., XIX, 381.
Iltis, H., XIX, 273, 411; XXI, 550.
Imhotep, XXI, 308, 550, 590.
Ingenhousz, J., XX, 251.
Ingholt, H., XIX, 255.
Ingram, J. K., XIX, 175, 176, 177.
Ingram, R., XXI, 105.
Inostranzev, XXI, 573.
Irsay, S. d', XXI, 551.
Isham, J., XX, 349.
Isḥāq Ibr. ibn Muḥ. al-Tabrīzī, abū, XX, 452.
Ishizuka, R., XXI, 551.
Ishmael, XXI, 320 ff.
Isidorus, XX, 63 ff.; XXI, 370.
Ismā'īl ibn Moḥ. Ghelenbavī, XIX, 514.
Israeli, XIX, 208, 211.
Issa Bey, A., XX, 586.
al-Iṣṭakhrī, XXI, 352 f.
Ivanow, W., XIX, 533.
Iyengar, H. R. R., XX, 515 f.
Izzeddine, Cassim, XIX, 290.

J

Jābir ibn Aflaḥ, XIX, 509.
Jābir ibn Ḥayān, XIX, 259, 431, 526, 592; XX, 517, 587; XXI, 14, 21, 30, 38, 152, 205, 527, 556.
Jacks, L. P., XIX, 454.
Jackson, A., XXI, 416.
Jackson, B. D., XXI, 551.
Jackson, D. C., XIX, 406.
Jackson, Hal., XXI, 386.
Jackson, He., XXI, 57-70.
Jackson, R. L., XXI, 386.
Jacob ben Maḥir i. Tibbon, XIX, 524; XX, 312, 513; XXI, 362.
Jacob ben Meir Tam, XXI, 357.
Jacobi, C. G. J., XX, 165, 166, 170, 184.
Jacobi, H., XIX, 572.
Jacobus, S., XX, 613.
Jacopo d'Angiolo, XX, 271.
Jacques de Vitry, XIX, 258.
Jaeger, F. M., XXI, 551.
Jaeger, G., XXI, 402.
Jaeger, M., XXI, 402.
Jaeschke, K., XIX, 452.
Ja'far al Ṣādiq, XXI, 586.
al Jāḥiẓ, XXI, 507, 551.
Jahn, F., XIX, 312; XXI, 551.
Jalālu'd dīn Rūmī, XIX, 86.
James, T. E., XX, 540.
James, W., XX, 609.
Jameson, H. G., XIX, 346.
Jamshīd, XIX, 512, 513.
Jankelevitch, S., XXI, 433, 538.
Jankélévitch, V., XX, 569.
Janssen, J., XX, 497.
Janssen, Z., XX, 497.
Janssens, E., XIX, 304.
Jariz, XXI, 34.
Jars, G., XIX, 332, 333.
Jaspers, K., XIX, 453.
al-Jauzī, ibn, XIX, 532.
Jaworsky, XX, 237, 244.
Jayne, A. G., XIX, 596.
al-Jazarī, XX, 523.

Jazzār, abu'l, XXI, 33.
Jean, C. F., XIX, 280; XX, 574; XXI, 419.
Jean de Murs, XXI, 152, 157.
Jeans, J. H., XIX, 294, 436; XX, 210, 217; XXI, 326-28.
Jeanselme, E., XX, 249-52; XXI, 552.
Jedlik, A., XIX, 553; XX, 561.
Jefferson, T., XIX, 270, 271, 550; XX, 555, 557; XXI, 546.
Jegel, A., XX, 611.
Jehangir, XIX, 472.
Jellinek, S., XIX, 552; XXI, 405.
Jenkins, R., XIX, 540, 547.
Jenks, W. L., XIX, 303.
Jenner, E., XIX, 270; XX, 554; XXI, 531, 552.
Jennings, H. S., XX, 227, 242.
Jensen, H., XXI, 552.
Jéquier, G., XXI, 552.
Jeremias, A., XIX, 428, 564.
Jervis, A. de Rosen, XX, 443.
Jesinger, A., XX, 557.
Jesus, XIX, 255; XXI, 344, 351, 499, 525, 531, 541, 542.
Jewett, F. B., XIX, 411.
Jha, M., XIX, 475.
Jickeli, XX, 227, 242.
al-Jildakī, XXI, 19, 20.
Jñānarāja, XIX, 476.
Joachim de Flore, XIX, 257.
Joachimsthal, F., XX, 166, 170, 171, 174.
Joad, C. E. M., XIX, 596.
Jobez, A., XXI, 493 f.
Jochelson, W., XXI, 464.
Joergensen, J., XX, 597.
Johann Carolus, XIX, 397.
Johannes de Glogovia Majori, XIX, 365.
Joh. v. Gmunden, XIX, 489, 491; XXI, 156.
Johannes of Ketham, XXI, 555.
Johannes de Saxonia, XIX, 492; XXI, 158.
Johannet, R., XX, 375.
John III of Portugal, XXI, 372.
John XXII, XXI, 155.
John of Arezzo, XXI, 155.
John Bombeles, XXI, 155.
John Braccia, XXI, 155 f.
John of Brescia, XX, 312.
John of Eschenden, XXI, 156.
John de Fundis, XXI, 156.
John of Garland, XXI, 362.
John of Imola, XXI, 156.
John of Itri, XXI, 156.
John of Legnano, XXI, 157.
John of London, XXI, 361.
John Peckham, see Blasius of Parma.
John de Probavilla, XXI, 157.
John de Protsschida, XXI, 157 f.
John of Rupescissa, XXI, 158.
John of Salisbury, XIX, 257; XX, 479.
John of Toledo, XXI, 361.
John Tyrus Anglicus, see Dastin.
John of Vienna, XXI, 158.
John, V., XX, 428, 433.
Jonson, E. H., XIX, 437, 586.
Johnson, G. W., XXI, 120.
Johnson, M. C., XXI, 370.
Johnson, O. S., XXI, 552.
Johnson, R. A., XX, 593.
Johnson, T., XX, 531.
Johnson, W., XIX, 268.
Johnsson, J. W., S. XXI, 544, 552, 598.
Johnston, C., XXI, 529.
Johnston, G. A., XXI, 552.
Joliot, F., XXI, 437.
Jones, H. F., XX, 294.
Jones, H. S., XXI, 561.

Jones, H. W., XXI, 470.
Jones, R. F., XXI, 377.
Jones, R. M., XX, 510.
Jones, T. W., XX, 297.
Jones, W. H. S., XX, 262; XXI, 547.
Jorach, XXI, 591.
Jordan, C., XX, 187.
Jordan, D. S., XXI, 552.
Jordan, W. K., XIX, 539.
Jordan-Smith, P., XX, 534.
Jordanus Nemorarius, XIX, 258; XX, 522; XXI, 274.
Jørgensen, J., XIX, 295.
Jose, A., XIX, 266.
Joseph b. Ẓaddīq, XXI, 357.
Joseph Ispanus (or sapiens), XIX, 189, 191.
Joseph, T. K., XXI, 429.
Josephus, F., XIX, 255.
Josey, E., XX, 530.
Josippon, see Josephus, F.
Joubin, M. L., XIX, 385.
Jouguet, E., XXI, 552.
Jourdain, L., XXI, 553.
Jourdain, P. E., XXI, 553, 589.
Jourdain de Saxe, XX, 522.
Jouveau-Dubreuil, G., XXI, 553.
Juan de la Cruz, S., XX, 605; XXI, 366.
Jūd, abū'l, XXI, 594.
Judah Abarbanel, XIX, 394.
Judah ha Levi, XIX, 387; XXI, 357.
Judah ben Moses ha Cohen, XIX, 385.
Judd, C. H., XIX, 447.
Judeich, W., XX, 573.
Judges, A. V., XIX, 543.
Jūḥanna b Ḥailān, XIX, 290.
Jukowsky, XX, 225.
Julien, G. H., XXI, 437.
Jullian, C., XIX, 308.
Jung, C. G., XIX, 427.
Junge, G., XIX, 384; XXI, 553.
Jussieu, B.de, XIX, 334, 342; XXI, 527.
al-Juzjānī, XX, 520; XXI, 15 ff.

K

Kaempfer, E., XXI, 11.
Kaiser, E., XXI, 553.
Kaisin, F., XIX, 277.
Kalitsunakis, J. E., XIX, 388.
Kallinicus, XIX, 536.
Kalthof = Kalthoven, see Calthoff, C.
Kamal, H., XXI, 554.
Kamal, Y., XIX, 562.
Kamenski, V. A., XXI, 384.
Kamil, abū, XX, 279.
Kammerer, XX, 236, 244.
Kammerer, A., XIX, 284; XXI, 466, 554.
Kane, P. V., XIX, 573.
Kanetsune, S., XXI, 554.
Kanschtat, XX, 223, 242.
Kanshin, XXI, 350.
Kant, I., XIX, 137, 144-46, 153, 216, 221, 226; XX, 203, 557; XXI, 505, 533.
Kantorowicz, E., XIX, 258.
Kapadia, S. A., XXI, 554.
Karnīb, ibn, XIX, 290.
al-Karkhī, XIX, 511, 513.
Karpinski, L. C., XIX, 195, 303, 407, 588; XX, 593; XXI, 554, 574.
Kaschtschenko, XX, 233, 244.
al-Kāshgharī, XXI, 354.
Kasir, D. S., XIX, 529.
Kassovitz, XX, 223, 242.

Katō, G., XIX, 287.
Kātyāyana, XIX, 286.
Kauffmann, H., XXI, 554.
Kaulagin, XX, 225.
Kaye, G. R., XIX, 192; XXI, 539, 554 f.
Keen, W. W., XXI, 555.
Keightley, T., XX, 464.
Keith, A. B., XIX, 291, 431; XX, 508; XXI, 555.
Keller, C., XXI, 402.
Keller, G., XIX, 543.
Keller, H., XIX, 480.
Kelly, E., XIX, 39, 50, 51, 54.
Kelly, F. M., XIX, 451.
Kelvin, lord, XIX, 215, 411; XXI, 184, 532.
Kendall, J., XIX, 276.
Kendrick, T. D., XIX, 421.
Kennedy, J. M., XXI, 555.
Kennelly, A. E., XIX, 406.
Kent, R. G., XXI, 555.
Kepler, J., XIX, 53, 93, 95, 208, 231, 265, 396, 544, 587; XX, 496, 530, 535; XXI, 280, 555, 578.
Keppler, G.. XIX, 544; XX, 535.
Keśava, XIX, 473.
Kew, H., XX, 531.
Keyes, C., XXI, 392.
Keynes, G., XX, 337, 346, 533, 536.
Keyser, C. J., XIX, 588; XX, 593; XXI, 448, 555.
Keyser, E., XIX, 450.
Keyserling, H., XXI, 555.
Khaldūn, ibn, XIX, 535; XX, 479, 524, 525; XXI, 19, 366.
Khālid ibn Yazīd, XX, 516, 587; XXI, 31.
al-Khalīl, XXI, 350.
Khān Sāhib, XIX, 286.
al-Khaṭīb, ibn (of Loja), XXI, 362.
al-Khaṭīb al-Salmānī, ibn, XIX, 583.
Khayyam, 'O., XIX, 529, 530; XX, 521.
al-Khāzinī, XIX, 256.
Khunrath, H., XIX, 52.
al-Khwārizmī, XIX, 401, 527; XX, 274-80; XXI, 35, 209, 351, 555, 571, 602.
Kidder, A. V., XIX, 308.
Kiebitz, F., XXI, 411.
Kieckers, E., XIX, 452.
Kierkeggaard, S., XXI, 396.
Kikkulish, XIX, 484.
Kikuchi, XX, 307.
Kiliani, H., XIX, 555.
Killermann, S., XX, 526.
al-Kindī, XX, 479, 517 f.; XXI, 36.
Kingsford, A. B., XIX, 59.
Kingsley, J. S., XXI, 402, 408.
Kington, A., XXI, 381.
Kinnear, N. B., XIX, 408.
Kinnersley, E., XX, 250.
Kirby, W., XXI, 114.
Kircher, A., XIX, 266; XX, 496, 497; XXI, 217, 228.
Kirchhoff, G. R., XX, 151, 211.
Kirfel, W., XIX, 573.
Kirkby, J., XIX, 129.
al-Kirmānī, XX, 520.
Kirkpatrick. E. A., XX, 608.
Kirste, H., XX, 553.
Kirwan, R., XXI, 583.
Kitaibel, P., XX, 552.
Kitānī, K., XXI, 354.
Kitasato, S., XIX, 415; XX, 502.
Kittredge, G. L., XIX, 66, 71; XXI, 556.
Klaauw, J. C. v. d., XIX, 400; XX, 563.
Klatzkin, J., XIX, 580.
Klausner, J., XXI, 344.

Klebs, A. C., XXI, 556.
Klein, F., IX, 93, 110, 180; XX, 164, 185 ff., 189, 198; XXI, 556.
Klemm, F., XIX, 544; XX, 547.
Klemperer, G., XXI, 405.
Klibansky, R., XX, 457-64; XXI, 211-13, 556.
Klinckowstroem, C. v., XX, 551; XXI, 384, 543.
Klöckler, H. v., XX, 596.
Klose, O., XIX, 461.
Klüber, H. v., XX, 542.
Knaus, W., XIX, 387 f.
Knauth, P., XXI, 505.
Knight, T. A., XXI, 110, 114, 115.
Knobel, E. B., XIX, 45; XXI, 143, 556, 581.
Knoblauch, J., XX, 189.
Knorr, C., XX, 540.
Knox, J. H. M., jr., XXI, 386.
Knudsen, M., XXI, 183.
Ko Hung, XIX, 381, 525.
Koch Ri., XXI, 341, 565.
Koch, Ro., XIX, 200, 411, 412; XX, 502, 569; XXI, 403, 405.
Kochanowski, J., XIX, 543.
Koczirz, A., XIX, 394.
Köhler, R., XIX, 559.
König, E., XIX, 486.
König, P., XIX, 541.
König, W., XXI, 390.
Körner, O., XX, 551.
Kötter, XIX, 230.
Kövösi, XX, 226.
Kofoid, C. A., XIX, 270, 274, 557, 610; XX, 286-87, 291-93, 294-96, 297-300, 318-19, 495-97, 498, 499, 567, 568, 603, 608; XXI, 216-18, 227-30, 405, 415, 457; and passim.
Kohlbrugge, J. H. F., XXI, 566.
Kohlrausch, R., XIX, 207.
Koht, H., XIX, 282.
Kokomoor, F. W., XXI, 286, 566.
Kolrausch, K. W. F., XIX, 414.
Kommerell, V., XIX, 109; XX, 189.
Konow, S., XIX, 573.
Konrad, C., XIX, 378.
Koopman, J., XIX, 549.
Kopp, H., XIX, 405, 406; XX', 203.
Koppanyi, XX, 236, 244.
Koppelmann, Dr., XIX, 296.
Koren, J., XXI, 556.
Korschelt, XX, 237, 244.
Kossel, A., XXI, 200.
Kotsovsky, D., XX, 220-245; XXI, 556.
Kowalewski, A., XIX, 405.
Krähmer, G., see Mercator, G.
Kraentzel, F., XX, 615.
Kraft, F. G., XIX, 555.
Kraft, G. W., XIX, 102.
Krajewski, L., XIX, 531.
Kramers, J. H., XXI, 352.
Krammer, L., XXI, 462.
Kranz, W., XIX, 307.
Kraus, P., XX, 520; XXI, 16, 20, 556.
Krause, A., XX, 599.
Krause, A. K., XIX, 412.
Krause, F. E. A., XXI, 432.
Krause, P., XX', 399.
Krauss, S., XX, 585.
Krekich, A., XXI, 552.
Kremers, E., XIX, 400; XX, 443, 448, 449, 535; XXI, 304, 557.
Krenkow, F., XX, 452; XXI, 437.
Krishnaswami, G. V., XXI, 557.
Kroeber, A. L., XIX, 248.
Kronman, E. S., XXI, 411.
Kropp, M., XIX, 516-17.

Kṛṣṇa, XIX, 472.
Krüger, G., XX, 557.
Krueger. H. C., XXI, 358.
Krumbhaar, E. B., XX, 526; XXI, 472.
Krumbiegel, I., XIX, 443; XXI, 432, 459, 460.
Kruppa, E., XX, 571; XXI, 409.
Kryloff, N., XX, 239, 245, 564; XXI, 409.
Kubitschek, W., XIX, 525; XXI, 557.
Kubota, T., XX, 593.
Kühner, F., XXI, 557.
Kuenzi, A., XIX, 439.
Kürzinger, J., XIX, 390.
Küss, E., XIX, 411.
al-Kūfī, ibn, XX, 285.
Kugler, F. X., XX, 33; XXI, 557.
Kuhn, W., XIX, 452.
Kulisher, J. M., XXI, 456.
Kummer, E. E., XX, 181.
Kunsemüller, C. L., XIX, 591.
Kundt, A., XXI, 183.
Kunz, G. F., XIX, 446.
Kunzmann, T., XXI, 390.
Kuo Shou-ching, XXI, 363.
Kuppfer, A. T., XX, 160.
Kurland, S., XX, 457-64.
Kurzel-Runtscheiner, E., XIX, 555.
Kyan, J. H., XXI, 101.

L

Labat, J. B., XX, 537, 538.
Labbé, L., XXI, 404.
La Brosse, G. de, XXI, 506.
La Bruyère, J. de, XXI, 374, 496.
Laby, T. H., XXI, 185.
Lacassagne, J., XX, 235, 244.
Lacaille, N. L. de, XIX, 334, 338.
Lacau, P., XX, 39, 41.
Lacépède, E. de, XX, 551.
Lachmann, R., XX, 517.
Lachs, J., XIX, 543.
La Condamine, XIX, 332.
Lacouperie, T. de, XXI, 11.
Lacroix. A., XIX, 309, 432, 460, 551; XXI, 385, 557.
Lacroix, S. F., XIX, 115.
al-Lādhiqi, 'Abd al-Ḥamīd, XX, 280.
Lafayette, M. J. M. de, XX, 553.
Laforge, L., XXI, 462.
Lagarde, P. de, XIX, 274.
Lagercrantz, O., XXI, 522.
Lagrange, J. L., XIX, 103, 104, 105, 107, 109, 119, 204, 373, 374; XX, 151, 162; XXI, 277.
Laignel-Lavastine, M., XIX, 398, 562; XX, 553, 612; XXI, 467.
Laird, J., XX, 546.
Lake, K., XIX, 195.
Lalande, A., XIX, 310, 432, 587.
Lalande, J. de, XIX, 309, 550; XX, 547; XXI, 136.
Lallemand, C., XXI, 460.
Lamarck, J. B., XIX, 409, 587; XX, 293, 295; XXI, 393, 527, 557.
Lambe, J., XIX, 39, 54.
Lambert, J. H., XIX, 109; XX, 253, 546.
Lambourne, R., XXI, 158.
Lamé, G., XX, 168 ff., 177, 180, 183.
Lamer, H., XX, 577.
La Mettrie, J. O. de, XXI, 557.
Lammens, H., XIX, 526.
La Monte, J. L., XXI, 557.
Lamotte, E., XIX, 573.
Lampadius, W. A., XXI, 391.
Lancisi, J. M., XX, 543.

Lancret, M. A., XIX, 115, 116.
Landau, P., XIX, 599.
Landi, C., XIX, 542.
Landis, H. M. R., XX, 569.
Landman, J. M., XIX, 449.
Landry, B., XXI, 364.
Landsdowne, XIX, 549.
Landucci, L., XX, 443.
Lane, E. P., XX, 572.
Lanessan, J. M. A. de, XXI, 557.
Langdon, S. H., XIX, 560; XXI, 409.
Langevin, P., XIX, 293, 414; XX, 199; XXI, 452.
Langfeld, H. S., XX, 605.
Langley, S. P., XIX, 587.
Langlois (Col.), XIX, 537.
Langlois, V., XX, 271.
Langmuir, I., XXI, 410.
Langton, H. H., XX, 531.
Lao-tzŭ, XIX, 287, 525.
Laoust, E., XXI, 437.
La Pérouze, XXI, 385.
Lapicida, E., XIX, 394.
Laplace, P. S., XIX, 114, 357, 550; XX, 253; XXI, 388, 506.
Lapparent, A. de, XIX, 309.
Lapponi, G., XIX, 608; XX, 610.
Larkey, S. V., XXI, 57-70, 337-38.
Larmor, J., XIX, 406, 436.
La Roncière, C. de, XIX, 537; XXI, 367, 574, 584.
La Rose, N., XX, 539.
Larrey, D., XX, 564; XXI, 396.
Larronde, N., XXI, 392.
Larsell, O., XIX, 608.
Larsen, H., XIX, 283; XXI, 557.
Lartigue, J., XIX, 424.
Las Casas, B. de, XIX, 451.
Laski, A., XIX, 49.
Lassen, C., XIX, 274.
Lasswitz, K., XXI, 448, 557.
Latham, XXI, 468.
Latham, M. L., XXI, 529.
Lattin, H. P., XIX, 181-94; XX, 478-80, 519, 579; XXI, 448, 558.
Laufer, B., XIX, 599; XXI, 558.
Launay, L. de, XX, 546.
Launay, Le Corgne de, XX, 386 ff.
Launhardt, W., XIX, 217.
Laurent, F., XXI, 558.
Laurent, G., XXI, 558.
Laurent (R. P.), XX, 440.
Lavagnini, XX, 574.
La Vallée-Poussin, L. de, XIX, 573; XXI, 429.
Lavoisier, A. L., XIX, 107, 330-63, 401, 402, 550, 551, 587, 594; XX, 251, 253, 396-425, 549; XXI, 384, 528, 567.
Law, N. N., XIX, 473; XXI, 558.
Lawrence, E., XXI, 558.
Lawrence, T. E., XIX, 291, 431.
Lawson, J. L., XX, 190.
Layard, A. H., XXI, 10.
Lazear, J. W., XIX, 247.
Leaf, W., XXI, 408.
Leake, C. D., XIX, 245-47, 247-48, 249-52, 278, 381, 409, 456; XXI, 406, 558; and passim.
Leakey, L. S. B., XIX, 305.
Lebedinski, V. K., XXI, 399.
Lebègue, R., XXI, 369.
Le Bon, G., XIX, 432.
Le Bondidier, L., XXI, 558.
Lebrun, G., XXI, 466.
Lecat, M., XXI, 558.
Lecat-Pierlot, M., XXI, 558.
Leclerc, H., XIX, 459; XX, 615.
Le Corbeiller, P., XIX, 438.
Leersum, E. C. v., XXI, 559, 593.
Leeuwenhoeck, A. v., XIX, 547, 548, 587; XX, 498, 537, 538; XXI, 216-18, 228, 379.

Lefebvre des Noëttes, XIX, 283, 300.
Lefranc, Jean, XX, 551.
Legendre, A. M., XX, 163.
Le Gendre, P., XX, 554, 572.
Legiardi-Laura, C., XIX, 457.
Legrand, L., XXI, 559.
Legros, G. V., XXI, 559.
Lehmann, A., XXI, 559.
Lehmann, W., XX, 558.
Lehmer, D. N., XXI, 409.
Lehner, S., XIX, 448.
Leibniz, G. W., XIX, 95 ff., 122, 123, 144, 154, 214 ff., 221, 231, 364, 546; XX, 177, 483, 498, 540; XXI, 191, 377, 540, 606.
Leidinger, G., XIX, 461.
Lemaitre, G., XXI, 324.
Lemay, P., XIX, 401, 408.
Lémery, N., XIX, 267; XX, 339; XXI, 560.
Lemoine, J. G., XIX, 435.
Lemonnier, L., XIX, 609.
Lenghel, A., XXI, 386.
Lenoir, R., XXI, 559.
Lenormand, C., XX, 544.
Lentz, W., XIX, 565.
Lenzen, V. F., XIX, 254, 433, 438; XX, 484, 488-91, 492; XXI, 559.
Léon, X., XXI, 559.
Leonardo da Bertipaglia, XXI, 158, 604.
Leonardo da Vinci, XIX, 262, 283, 393, 455; XX, 527; XXI, 282, 370, 566, 608.
Lepsius, B., XXI, 560.
Leroux, L., XXI, 560.
Leroy, C., XIX, 335, 340, 349, 551.
Leroy, C. F. A., XX, 172.
Leroy, E., XIX, 415.
Leroy, G., XIX, 304; XX, 534.
Le Roy, J., XXI, 236.
Le Roy, J. B., XX, 397 ff.
Leroy, M., XX, 530.
Leroy, O., XIX, 265; XXI, 560.
Le Roy, P., XIX, 236; XX, 397.
Lesley, L. B., XXI, 402.
Leslie, J., XIX, 552; XXI, 175, 176.
Lespieau, R., XXI, 560.
Lesseps, F. de, XXI, 407.
Le Tessier, R., XIX, 562.
Letts, E. A., XXI, 560.
Lettsom, J. C., XIX, 503; XXI, 386.
Lever, R. J. A. W., XXI, 374.
Leverson, M. R., XXI, 404.
Lévi, S., XIX, 288; XXI, 428, 429.
Levi della Vida, G., XIX, 183.
Lévi-Provençal, E., XIX, 384, 429, 528.
Levines, E., XIX, 265.
Lévy, A., XIX, 309.
Lévy, H., XXI, 328-30.
Lévy, I., XXI, 560.
Lévy, Ra., XIX, 580.
Lévy, Ro., XX, 206.
Lévy-Bruhl, L., XIX, 242, 304; XX, 606, XXI, 464, 560.
Lévy-Vallensi, J., XX, 533.
Lewin, L., XXI, 560.
Lewis, C. I., XIX, 226.
Lewis, F. O., XIX, 551.
Lewis, G. N., XX, 216.
Lewis, W., XIX, 400.
Lewittes, M. H., XIX, 544.
Lewkowitsch. J., XX, 340.
Leyder, J., XIX, 306.
Lexa, F., XXI, 560.
Leysser, F. W.v., XX, 552.
Lhéritier, M., XIX, 451.
Lhermet, J., XX, 530.
L'Hospital, G. F. A. de, XIX, 97.
Li, H., XIX, 578.

Liang, B., XXI, 433.
Libavus, A., XXI, 190, 205.
Libby, W., XXI, 561.
Libert, L., XXI, 472.
Li Chieh, XIX, 529.
Lichtenstein, L., XIX, 295, 413.
Liddell, H. G., XIX, 280; XXI, 561.
Lie, S., XX, 184 ff.
Liebig, J. v., XIX, 406; XXI, 195 ff., 389, 390, 391.
Lieh Tzu, XXI, 541.
Lien-teh, Wu, XX, 480-82; XXI, 561.
Liesegang, F. P., XXI, 390.
Lietzmann, H., XIX, 428.
Lietzmann, W., XX, 436-39; XXI, 561.
Lily, W., XIX, 29, 39, 48.
Li Lung-mien, XXI, 568.
Li Ming-chung, see Li Chieh.
Lind, J., XXI, 111.
Lindblad, B., XIX, 436.
Line, F., XX, 363.
Lining, J., XX, 249.
Linné, C. v., XXI, 527, 550.
Linsenbarth, H., XX, 72, 73, 148, 154.
Lint, J. G. de, XIX, 417, 551, 559; XX, 528, 614.
Linton, R., XIX, 599.
Liouville, J., XIX, 111, 176; XX, 169 ff., 177.
Lippert, J., XX, 285.
Lippmann, E. O. V., XIX, 256, 259, 260, 268, 279, 299, 406, 410, 440-41, 524; XX, 527, 547, 560, 598; XXI, 373, 384, 390, 454, 458, 561.
Lippmann, G., XIX, 273.
Lipschitz, R., XX, 180 ff.
Lipschütz, XX, 234, 244.
Li Shih-chen, XX, 584.
Liszt, E. v., XIX, 541.
Little, A. G., XIX, 20; XXI, 562.
Little, E. M., XIX, 457, 610.
Littmann, E., XXI, 437.
Littré, E., XX, 569; XXI, 543.
Liu An, XIX, 525.
Liu-Chi, XX, 325.
Liu Hui, XX, 515.
Livingstone, D., XXI, 595.
Livingstone, R. W., XXI, 562.
Lloyd, H., XIX, 271; XXI, 591.
Lloyd, J., XX, 503; XXI, 237.
Lloyd, J. H., XXI, 386, 403.
Lobachevsky, N. I., XIX, 154; XX, 164, 560.
Lobstein, J. F., XX, 563.
Locke, J., XIX, 397 f., 548, 549; XX, 540.
Locke, L. L., XIX, 588; XX, 590; XXI, 377.
Lockemann, G., XX, 548; XXI, 405.
Locy, W. A., XXI, 562.
Lodge, O., XIX, 272, 273; XX, 567.
Lods, A., XIX, 428.
Loeb, J., XX, 229, 343; XXI, 562.
Loevenhart, A. S., XIX, 278.
Löw, I., XXI, 562.
Loewen, A., XIX, 541.
Loewenberg, B. J., XXI, 402.
Loewenfeld, K., XX, 548.
Löwenstein, G., XXI, 562.
Löwy, H., XX, 573.
Logan, J., XXI, 218 ff.
Loghem, J. J. v., XIX, 392.
Loiseau, H., XX, 427.
Loisy, A., XIX, 454.
Lombardini, M., XXI, 381.
Lombroso, C., XIX, 457.
Loncq, G. J., XIX, 554.
Lones, T. E., XXI, 562.

Long, C. W., XIX, 346.
Longhena, M., XIX, 575.
Lons, XIX, 235.
Lorand, XX, 230, 243.
Loree, L. F., XIX, 552; XXI, 456.
Lorentz, H. A., XX, 194 ff., 488.
Lorenzutti, A. C., XIX, 608; XX, 610.
Lorey, W., XX, 546; XXI, 562.
Lorgeau, XIX, 459.
Loria, G., XIX, 229-31, 293, 296, 395, 560, 589; XX, 156, 441, 442, 560; XXI, 286, 397, 448, 449, 562.
Lorimer, E. O., XIX, 258.
Lorraine, XX, 235, 244.
Lorry, A. C., XX, 504;
Lotze, R. H., XIX, 412; XX, 215.
London, J. C., XXI, 100, 107.
Louis XV, XXI, 493, 496.
Loukianos of Samosata, XX, 496.
Loumyer, G., XX, 521.
Love, A. E. H., XX, 76, 149, 151.
Love, K. S., XIX, 552.
Lovejoy, A. O., XXI, 387, 563.
Lowe, E. A., XIX, 196.
Lower, R., XX, 537, 539.
Lowie, R. H., XXI, 337, 412, 463, 464.
Loyola, I. de, XXI, 595.
Lubarsch, O., XXI, 413.
Lubbock, C. A., XXI, 384.
Lubchanin, N., XIX, 536.
Lucas, A., XXI, 417.
Lucas, H., XIX, 127.
Lucia, S. P., XIX, 455.
Luckey, P., XX, 15-52; XXI, 563.
Lucretius, XIX, 135; XX, 512; XXI, 563.
Ludendorff, H., XX, 561, 606.
Ludovicus de Fontana, XX, 336.
Ludwig, C., XXI, 401.
Ludwig, W., XIX, 442.
Lübke, A., XIX, 427, 578.
Lüdemann, C., XX, 597.
Lüdtge, R., XX, 566.
Lüdtke, G., XX, 609.
Lukasiewicz, J., XX, 591.
Lukat, M., XX, 187.
Lull, R., XIX, 441; XXI, 360, 363, 578.
Lull, R. (pseudo), XXI, 159.
Lulofs, H. J., XIX, 524.
Lumière, A., XX, 239, 245.
Lupitus Barchinonensis, XX, 519, 579.
Luquet, G. H., XIX, 296.
Luria, S., XIX, 438.
Luria, S. J., XXI, 449.
Lusitanus, A., XIX, 263.
Lusk, G., XIX, 414.
Luzzatto, M. H., XX, 545.
Lycosthenes, see Wolfhart, C.
Lyell, C., XX, 295.
Lysimachos of Chos, XXI, 342.

M

Mabane, A., XXI, 468.
Macbeth, J. C. H., XX, 573.
MacBride, E. W., XIX, 302.
MacCallum, W. G., XXI, 563.
Macdonald, D. B., XIX, 585; XX, 450-51, 464-67; XXI, 226, 316-19, 319-22, 563.
Macdonell, A. A., XXI, 563.
McDougall, W., XIX, 434.
McDowell, E., XIX, 247, 554.
McFarland, J., XX, 614; XXI, 472.
Macfarlane, A., XIX, 149; XXI, 563.
Mach, E., XX, 208; XXI, 286, 515, 563.

Machiavelli, N., XX, 525.
Mackay, D. L., XIX, 390.
Mackaye, J., XXI, 564.
McKee, R. H., XIX, 276.
Mackensen, L., XX, 608.
Mackensen, R. S., XIX, 429.
Mckenzie, D., XIX, 412; XX, 563.
Mackenzie, J., XXI, 564.
McKenzie, R., XXI, 561.
McKerrow, R. B., XIX, 46.
MacKinney, L. C., XXI, 564.
Maclaurin, C., XIX, 99, 140-44; XXI, 606.
Maclean, J., XX, 211.
Macmichael, W., XX, 611 f.
McMurrich, J. P., XXI, 236, 566.
McNair, J. B., XIX, 599.
MacNair, M. W., XIX, 461.
Macnaughton, D., XIX, 421; XX, 575.
MacPike, E. F., XX, 470-72; XXI, 564.
Macquer, P. J., XIX, 332, 359.
Macrobius, XIX, 534.
Madan, F., XIX, 267; XX, 565, 566.
Madry, J., XXI, 468.
Madsen, V., XXI, 523.
Maeterlinck, M., XIX, 444; XXI, 564.
Magellan, F., XIX, 537.
Magendie, F., XIX, 407.
Mager, H., XIX, 307; XXI, 564.
Magie, W. F., XX, 561.
Magini, G. A., XIX, 540; XX, 527.
Magnaghi, A., XIX, 537.
Magnal, XX, 445; XXI, 534.
Magnan, A., XXI, 458.
Magnus, G., XX, 258; XXI, 177 ff.
Magnus, L. J., XIX, 169-70, 172, 173, 176, 177, 179; XXI, 388.
Magoun, F. A., XIX, 300.
Magrini, S., XXI, 564.
Mahāvīra, XIX, 286; XXI, 350, 527.
Mahnke, D., XIX, 545; XXI, 564.
Mahu, S., XIX, 394.
Maimon, S., XX, 555; XXI, 511.
Maimonides, see Moses b. Maimon.
Main, A. K., XXI, 402.
Mainardi, G., XX, 178 f.
Maine de Biran, P., XXI, 396.
Maino de Maineri, XXI, 159.
Mainz, E., XXI, 358.
Mairan, J. J. d'Ortous de, XX, 470; XXI, 378, 544.
Maire, A., XXI, 564.
Maire, R., XXI, 459.
Majocchi, D., XX, 568.
Major, C. I. F., XIX, 556.
Major, R. H., XIX, 395, 398, 518-20, 548; XXI, 564.
al-Majrīṭī, XIX, 385; XX, 261; XXI, 548, 602.
al-Majrīṭī, pseudo, XXI, 26.
Malapert, C., XIX, 396.
Male, E., XXI, 564.
Malebranche, N. de, XX, 367-95, 498; XXI, 517.
Malfante, A., XXI, 368.
Malfatti, G. F., XIX, 170, 296; XX, 546.
Malinowski, B., XIX, 306, 454; XXI, 564.
Mallard, E., XIX, 309.
Malone, K., XX, 518.
Malouin, P. J., XIX, 332.
Malpighi, M., XIX, 455; XX, 498, 538, 610; XXI, 228, 379.
Malthus, T. R., XIX, 449.
Maltzahn, R. v., XIX, 307.
Malus, E. L., XIX, 115, 118; XX, 167, 173.
Maly, XX, 223, 242.

al-Ma'mūn of Cordova, XIX, 528.
al-Ma'mūn of Toledo, XIX, 528.
Man, J., XIX, 66.
Manasses, C., XIX, 388.
Mandelslo, XIX, 544.
Mandeville, D. C., XXI, 565.
Mangano, V., XX, 545, 552.
Mangiagalli, L., XX, 610.
Mani, XXI, 348, 349.
Manilius, M., XXI, 344.
Manitius, M., XIX, 421.
Manley, R. M., XIX, 298.
Mann, J., XXI, 433.
Mann, W. B., XXI, 185.
Mannheim, A., XX, 186.
Manning, F., XXI, 565.
Manning, H. P., XXI, 565.
al-Mannubī as-Sanūsī, XX, 280.
Manquat, M., XIX, 254, 380.
Mansion, J., XIX, 573.
Mansion, P., XXI, 465.
Manuel II (of Portugal), XIX, 539.
Mapletoft, J., XIX, 128.
Marbeck, J., XIX, 27, 35, 38.
Marc the Greek, XIX, 260; XXI, 531.
Marçais, G., XXI, 437.
Marcel, G., XX, 610.
Marcellus of Side, XXI, 348.
Marcham, F. G., XXI, 565.
Marchi, C., XIX, 556.
Marci, M., XIX, 264; XXI, 585.
Marcion, XXI, 346.
Marcolongo, R., XIX, 262, 296; XXI, 376.
Marett, R. R., XXI, 336-37, 413.
Margerie, E. de, XXI, 565.
Marggraf, A. S., XIX, 342; XX, 414 f., 542, 548.
Margoliouth, D. S., XIX, 389; XXI, 437.
Margolis, M. L., XIX, 289.
Marguet, F., XIX, 235-37, 601; XXI, 286, 565.
Mariani, J., XXI, 388.
Mariano, (Fra), XIX, 538.
Maricourt, XIX, 441.
Marignac, C., XX, 561.
Marinesco, XX, 225, 242.
Marinos of Thyr, XX, 271, 272, 274, 514.
Marinus, A., XX, 607; XXI, 464, 465.
Mariotte, E., XX, 247, 253.
Markham, C., XXI, 576.
Markham, C. R., XXI, 565.
Marliani, G., XXI, 159.
Marlowe, C., XIX, 47.
Maroger, J., XIX, 536.
Marotta, D., XXI, 390.
Marouzeau, J., XIX, 452.
Marples, E. A., XIX, 604.
Marquardt, E., XIX, 307.
Marquardt, M., XXI, 565.
Marshall, A. E., XXI, 419.
Marshall, F. H., XXI, 565.
Marshall, F. H. A., XIX, 302.
Marshall, J., XIX, 426, 574.
Marshall, W., XXI, 108, 109, 113, 120.
Marsigli, L. F., XX, 538, 543; XXI, 379.
Martelli, U., XXI, 392.
Martellus, G. H., XIX, 487 ff.
Marth, A., XXI, 138.
Martin, A., XX, 554.
Martin, H. N., XX, 222.
Martin, J. M., XIX, 288.
Martin, L., XIX, 402; XX, 552.
Martin, T., XX, 472; XXI, 565.
Martine, G., XX, 248, 252.
Martinet, J., XXI, 468.
Martinus Biem, XIX, 378.
Martius, E. W., XXI, 395.

Martonne, E. de, XXI, 566.
Marty, J., XIX, 278.
Marvin, F. S., XIX, 293; XXI, 566.
al-Marwazī, ibn, XIX, 290.
Marx, A., XIX, 289; XXI, 356, 357, 358.
Marx, C., XX, 570.
Marx, J. C., XIX, 312; XXI, 551.
Mary, Queen of England, XIX, 45.
Marzell, H., XIX, 599; XXI, 566.
Masaryk, T. G., XXI, 566.
Māshāllāh, XIX, 401, 491.
Ma'shar, abū, XXI, 35.
Mason, J. M., XIX, 408.
Mason, W. A., XXI, 566.
Masotti, A., XX, 542.
Massalongo, A., XXI, 393.
Massalongo, C. B., XXI, 402.
Massignon, L., XIX, 585; XX, 586.
Masson, L., XIX, 313.
Masson-Oursel, P., XXI, 430, 566.
Mas y Guindal, J., XX, 553.
Mather, C., XIX, 38; XXI, 218 ff.
Mather, I., XX, 540.
Mathias, O., XXI, 400.
Mathias de Gorka, XX, 440.
Mathieu, F., XIX, 265.
Matschoss, C., XXI, 411.
Mattheos of Edessa, XIX, 386.
Matthews, W., XIX, 549.
Matthiesen, W., XXI, 566.
Maudslay, A. P., XIX, 273.
Maupas, F. E., XX, 223, 227, 242, 567.
Maupertuis, P. L., XX, 498; XXI, 517.
Maurer, K., XIX, 438.
Mauriac, F., XX, 530.
Mauriac, P., XIX, 309.
Maurice of Nassau, XXI, 243 ff.
Maurizie, A., XIX, 599.
Maurolycus, XX, 496.
Maury, M. F., XX, 301.
Maxson, R. N., XIX, 552.
Maxwell, J., XXI, 566.
Maxwell, J. C., XX, 175, 195, 211, 488, 567; XXI, 181 ff., 399, 400.
May, R. M., XIX, 596.
Mayer, J. T., XIX, 236; XX, 441; XXI, 563.
Mayer, L. A., XIX, 428.
Mayer, R., XXI, 389.
Mayerne, T. T. de, XXI, 376.
Maynard, K., XIX, 293; XXI, 566.
Mayow, J., XIX, 397; XX, 536; XXI, 578.
Mazière, XX, 367.
Mazzini, G., XIX, 272, 312, 313, 554.
Mazzoni, G., XIX, 608; XX, 610.
Mead, G. H., XX, 307-10; XXI, 567.
Mead, M., XIX, 448.
Meaking, A. M. B., XX, 558.
Means, P. A., XIX, 451; XXI, 567.
Mears, I., XIX, 578.
Mears, L. E., XIX, 578.
Méautis, G., XXI, 417.
Mechnikov, E., XIX, 273-74, 557; XX, 223, 228, 243; XXI, 511, 567.
Mechnikov, O., XIX, 273, 557; XXI, 567.
Medigo, J. del, XIX, 544.
Medina, XIX, 235.
Meek, W. J., XIX, 245.
Meerloo, A. M., XXI, 469.
Mégroz, R. L., XXI, 405.
Mehmke, R. L., XIX, 560.
Mehta, D. M., XIX, 574.
Meidinger, H., XIX, 555.
Meisel, M., XXI, 567.
Meïssa, M. S., XXI, 354.
Meissner, B., XXI, 567.
Meissner, W. W., XIX, 439.

Meldrum, A. N., XIX, 330-63, 401, 551; XX, 396-425, 549, 561; XXI, 384, 567.
Melia, J., XIX, 564.
Mellan, C., XIX, 396, 544.
Mellin, XXI, 228.
Melton, J., XIX, 27, 28, 31, 32, 34, 38, 40, 42, 43.
Mendaña, de, XXI, 374.
Mendel, G. J., XIX, 217, 273, 411, 587; XXI, 403, 550.
Mendel, L. B., XXI, 567.
Mendelejeff, D. I., XIX, 234, 556; XXI, 398, 400.
Menelaos, XIX, 507, 524; XX, 513; XXI, 349.
Menge, C., XIX, 609.
Mengeringhausen, M., XX, 537.
Mengert, W. F., XIX, 610.
Menghin, O., XXI, 567.
Menon, C. P. S., XXI, 453.
Mensching, G., XIX, 454.
Menshutkin, B. N., XXI, 454.
Menzel, XX, 561.
Menzies, A., XXI, 468.
Menzies, J. M., XIX, 5, 8.
Merbach, P. A., XX, 558.
Mercati, G., XX, 269; XXI, 427.
Mercator, G., XIX, 95, 236, 303, 541; XXI, 278, 280.
Mercier, L., XX, 587; XXI, 549, 567.
Mercurialis, G., XIX, 540, 542.
Merian-Genast, E., XX, 558.
Merikere, XXI, 310.
Merrian, C. H., XIX, 414.
Merriam, J. C., XXI, 567.
Merrifield, M. P., XIX, 390; XXI, 202 ff.
Merrill, G. P., XXI, 567.
Mersenne, M., XX, 467-70; XXI, 214, 277, 448, 567.
Mesrop, XIX, 382.
Messedaglia, L., XXI, 392.
Messehallah, see Māshāllāh.
Messerschmidt, F., XX, 596.
Messina, G., XIX, 582.
Metalnikov, S., XX, 231, 243.
Metcalf, C. L., XXI, 460.
Metelka, J., XIX, 487.
Metius, A., XIX, 364.
Metz, A., XXI, 567.
Metzger, H., XIX, 205-07, 233-35, 407; XXI, 440, 568.
Meulen, D. v. d., XIX, 429.
Meunier, M., XXI, 580.
Meusnier, J. B. M. C. de la Place, XIX, 106, 107, 112; XX, 166.
Mewaldt, J., XXI, 341.
Meyer, A. E., XXI, 568.
Meyer, E., XXI, 415.
Meyer, E. v., XXI, 568.
Meyer, E. P. C., XIX, 399.
Meyer, J. J., XIX, 574.
Meyer, L., XIX, 234; XXI, 400.
Meyer-Steineg, T., XX, 574; XXI, 568.
Meyerhof, M., XIX, 290-91, 403, 524, 525, 526; XX, 451-54, 455-57; XXI, 346, 438, 569.
Meyerson, E., XIX, 293, 295, 331, 413; XXI, 444, 569.
Mézeray, F. E., de, XX, 534.
Mezger, J. G., XIX, 411.
Michael Scot, XIX, 258; XX, 479; XXI, 545, 597.
Michaelis, E., XX, 569.
Michaelis, L., XIX, 250.
Michaelis, R., XIX, 452.
Michel, B., XXI, 569.
Michel-Lévy, A., XIX, 309.
Michelant, H., XIX, 261.
Michell, J., XXI, 140.
Michelson, A. A., XX, 194; XXI, 400.

Michelson, T., XIX, 306.
Michon, P., XX, 533.
Middleton, W. S., XIX, 245; XX, 554; XXI, 472.
Mieli, A., XIX, 293, 402; XX, 510, 585, 590; XXI, 569 f.
Miguel, C. de, XIX, 291; XXI, 507.
Mikami, Y., XXI, 398, 570.
Milch, W., XXI, 380.
Milhaud, Ga., XXI, 541, 570.
Milhaud, Ge., XX, 590.
Mill, H. R., XIX, 558.
Millar, E. G., XIX, 392.
Millàs Vallicrosa, J., XIX, 385 f.. 422, 429, 528, 530, 532; XX, 579; XXI, 363, 570.
Miller, B., XIX, 291; XX, 438; XXI, 570.
Miller, G. A., XIX, 435; XX, 74, 594; XXI, 571.
Miller, K., XIX, 445, 486; XXI, 571.
Miller, K. W., XX, 207.
Miller, O. M., XX, 603.
Miller, P., XXI, 218 ff.
Miller, W. S., XIX, 245; XX, 533, 563; XXI, 395.
Millikan, R. A., XIX, 411; XXI, 571.
Mills, F. C., XX, 608.
Milne, E. A., XIX, 590; XXI, 325.
Milne-Edwards, H., XIX, 271.
Milton, G., XXI, 380.
Mimori, M., XXI, 398.
Minding, F., XX, 164, 165, 170, 179 ff.
Miner, J. R., XIX, 607.
Mineur, H., XXI, 453.
Minkowski, H., XIX, 197 ff.
Minkowski, O., XIX, 298.
Minot, XX, 232, 243.
Miro of Gerona, XIX, 191.
Mirone, G., XIX, 281.
Mitchell, A. C., XIX, 602.
Mitchell, P. C., XIX, 596; XXI, 445.
Mitkewitch, W. T., XX, 561.
Mitoüart, L. A. J., XIX, 272.
Mitoüart, P. F., XIX, 272.
Mitrovitch, R., XIX, 264.
Mittasch, A., XIX, 407.
Mittmann, J., XIX, 544.
Mittvoch, E., XX, 586; XXI, 349.
Miyajima, M., XIX, 415.
Miyashita, K., XIX, 579.
Modena, L. de, XXI, 375.
Möbius, A. F., XIX, 176, 177; XX, 167.
Moedebeck, H., XX, 603.
Moerman, I. D., XXI, 373.
Moffat ,L. G., XXI, 372.
Moffett, T., XX, 351, 354.
Moghadam, S., XIX, 582.
Mogi, S., XIX, 449.
Mohr, G., XX, 535.
Moivre, A. de, XXI, 507.
Moïsides, M., XIX, 449.
Molière, J. P. de, XX, 367-95.
Molinéry, R., XX, 530.
Molyneux, S., XXI, 207.
Momigliano, A., XIX, 380, 419.
Monboddo, XXI, 387.
Mondini, C., XX, 610.
Mondini, F., XX, 610.
Mondino de'Luzzi, XIX, 261; XXI, 58, 66, 68.
Mondolfo, R., XX, 577.
Mondovi, M. A. J. da, XXI, 386.
Monge, G., XIX, 105, 106, 108-120, 230; XX, 162, 165, 173, 175, 187, 546.
Monleone, G., XXI, 369.
Monnet, A., XIX, 343.

Monod, T., XXI, 392.
Monod, V., XXI, 467.
Montagne, R., XIX, 429.
Montagnier, H. F., XXI, 571.
Montaigne, M. de, XIX, 539.
Montanus, J., XIX, 543.
Montgomery, D. W., XIX, 610.
Monti, A., XXI, 395.
Montigny, E. M. de, XIX, 347, 349.
Montmasson, J. M., XIX, 304.
Montucla, J. E., XIX, 509.
Montvéran, M. de, XX, 560.
Moodie, R. L., XXI, 571.
Mookerjee, B., XIX, 574.
Moon, R. O., XIX, 396; XX, 531.
Mooney, J., XIX, 605.
Moore, C. L. E., XIX, 558; XX, 571.
Moore, E. H., XXI, 398.
Moore, G. F., XIX, 428.
Mordecai, C., XIX, 262.
Mordukhai-Boltovskoy, D., XX, 594; XXI, 449.
More, H., XXI, 574.
More, T., XIX, 33, 40, 539.
Morehead, J. C., XX, 162.
Morehouse, D. W., XIX, 436.
Morel, B. A., XX, 221, 241.
Moreland, W. H., XX, 531.
Moréno y Maiz, XXI, 405.
Moret, A., XXI, 571.
Moret, J., XIX, 217.
Moretus, T., XIX, 264.
Morgagni, G. B., XIX, 400, 403, 455; XX, 543, 544, 545, 552; XXI, 571.
Morgan, A. de, XXI, 572.
Morgan, C. L., XIX, 447.
Morgan, G. A., XXI, 408.
Morgan, J., XIX, 550.
Morgan, J. de, XXI, 572.
Morgan, T. H., XXI, 492.
Morienus, XXI, 30, 33, 49.
Morison, S., XIX, 267.
Morison, S. E., XX, 534; XXI, 236.
Morley, S. G., XX, 194; XXI, 572.
Morley, W. H., XX, 311 ff.
Mornet, D., XX, 558.
Morpugo, G., XIX, 558.
Morris, F. K., XXI, 237 f.
Morrison, S., XX, 553.
Morse, E. S., XXI, 402.
Morton, W. T. G., XIX, 246, 409.
Morveau, G. de, XIX, 402, 591; XXI, 577.
Moseley, H. G. J., XXI, 589.
Moses ibn Chiquitilla, XXI, 355.
Moses b. Maimon, XIX, 208, 211, 389; XX, 479; XXI, 358.
Moses, Xorenaçi, XXI, 347.
Mott, V., XIX, 346.
Motteley, P. F., XXI, 286, 572.
Moule, A. C., XIX, 533; XXI, 363, 366, 433.
Moulinier, M., XXI, 211 f.
Moultrie, J., XX, 503.
Moutain, XIX, 236.
Mourgue, R., XX, 562.
Mousson-Lanauze, XXI, 467.
Moutard, T., XX, 180.
Mouterde, R., XXI, 347.
Mowinckel, S., XXI, 434.
Mubārak, Z., XIX, 384.
Mühlmann, XX, 226, 242.
Müller, A., XIX, 259; XX, 587.
Müller, C., XIX, 574; XX, 269, 512.
Müller, C. H., XIX, 574.
Müller, E. A., XX, 571, 409.
Müller, F., XIX, 101; XXI, 343.
Müller, F. J., XXI, 572.
Müller, G., XXI, 572.
Müller, J., XXI, 395.
Müller, Mar., XX, 554.

Müller, Max., XIX, 275.
Müller, R., XX, 607; XXI, 463.
Müller, R. F. G., XIX, 574, 575; XXI, 430.
Müller-Freienfels, R., XIX, 446.
Müller-Reinhard, J., XIX, 541.
Münster, L., XX, 539; XXI, 369.
Münster, S., XX, 494.
Muffet, T. see Moffett, T.
Muḥammad, XIX, 526; XXI, 320 f., 349, 365.
Muḥammad, 'Abdu, XXI, 318.
Muḥ. 'Awfī, XIX, 425.
Muḥ. i. Ibrāhīm al-Nafzī al-Rundī, XXI, 366.
Muḥ. al-Qāsim i. Muḥ. al-Ghassānī, abū, XIX, 387.
Muḥ. al-Serradī al-Ḥajj, XIX, 429.
Muḥ. Shahrazūrī, XIX, 530.
Muḥ. Tughlaq, XIX, 474.
Muḥ. al-Zuhrī, XIX, 386.
Muḥ. ibn Umail, XIX, 385.
Muirhead, J. H., XIX, 453.
Mulder, G. I., XX, 445; XXI, 197 ff.
Muller, F., XXI, 283.
Munier-Chalmas, E., XIX, 309.
Munīśvara, XIX, 472.
Munro, D. C., XIX, 386, 531; XXI, 358.
Munro, J., XIX, 543.
al-Muqaffā, ibn, XX, 517.
Muratori, L. A., XX, 517.
Murchison, C., XIX, 447.
Murdoch, P., XIX, 141.
Murdock, K. B., XX, 540.
Murphy, A. E., XX, 308.
Murray, D., XX, 307.
Murray, J., XX, 257.
Musil, A., XXI, 572.
Musschenbroek, v., XXI, 228.
Myers, C. S., XIX, 603.
Mžik, H. v., XIX, 527; XX, 268; XXI, 347, 351.

N

Nabonidus, XXI, 320.
Nachmanson, E., XXI, 341.
Nachod, O., XIX, 579.
al-Nadīm, ibn, XX, 283-85; XXI, 572.
Nāgārjuna, XIX, 525.
al-Naīrizī, XIX, 384.
al-Najrānī, XX, 284.
Nallino, A. C., XIX, 527, 583.
Nansen, F., XIX, 556; XXI, 403.
Napier, J., XIX, 122, 231 ; XXI, 547.
Narasimha, XIX, 472, 473.
Nārāyaṇa, XIX, 472-85; XXI, 364, 527.
Narducci, T., XIX, 268.
Nariman, G. K., XXI, 572.
Narr, F., XXI, 182.
Nasatir, A. F., XX, 548.
al-Nasawī, XIX, 511.
Nasche, T., XIX, 36.
Naṣīr al-dīn al-Ṭusī, XIX, 507 f., 533; XXI, 599.
Nathan, XIX, 210, 211.
Natucci, A., XIX, 294, 393.
Naudin, G., XIX, 567.
Naumann, E., XIX, 451.
Navier, L. M. H., XX, 168.
Naville, A., XXI, 573.
Needham, J., XIX, 301, 442; XXI, 573.
Needham, J. T., XX, 498; XXI, 106.
Needham, W., XX, 498.
Neel, A., see David-Neel, A.
Nees, C. G. v. Esenbeck, XXI, 392.

Nefertete, XXI, 312.
Nehemiah, XX, 277.
Nehlil, XXI, 549.
Neidhart v. Reuental, XIX, 389.
Neisser, A., XIX, 609; XX, 505.
Nekrassow, A. D., XXI, 379.
Nelmes, E., XIX, 599; XX, 600.
Nemours, Du Pont de, XX, 555.
Nemoy, L., XXI, 353, 375.
Nero, XIX, 255.
Nesbit, R., XIX, 400.
Nestle, W., XIX, 419.
Netolitsky, F., XIX, 443, 599.
Neuburger, A., XXI, 573.
Neuburger, M., XX, 600, 612, 613; XXI, 573.
Neudeck, G., XXI, 573.
Neufeld, M. W., XXI, 411.
Neugebauer, O., XIX, 280, 418, 560; XX, 20, 21, 24, 46, 50, 438, 512, 575, 576; XXI, 419.
Neugebauer, P. V., XXI, 573.
Neumann, C. E., XIX, 575.
Neumann, K. F., XIX, 275.
Neurath, O., XIX, 449.
Neveu, R., XIX, 457; XX, 564.
Neviani, A., XX, 543; XXI, 379.
Neville, E. H., XIX, 268.
Newall, H. F., XXI, 400.
Newbold, W. R., XXI, 573.
Newcomen, T., XIX, 549.
Newell Arber, E. A., see Arber, A.
Newell, L. C., XIX, 276, 558; XX, 548; XXI, 417.
Newmann, H. H., XIX, 301.
Newton, A. P., XXI, 369.
Newton, I., XIX, 97, 98, 122-44, 154, 203-04, 231, 264, 268, 546, 587; XX, 152, 193, 194, 200, 216, 246, 248, 367 ff., 411 f., 470 ff., 535; XXI, 143, 215, 377, 378, 380, 517, 553, 568, 572, 573 f., 578, 585, 590.
Niccolò da Foligno, XXI, 159.
Nicholson, R. A., XIX, 583.
Nicol, H., XIX, 595.
Nicolas Cabasilas, XXI, 365.
Nicolaus Comes = de Comitibus, XXI, 159.
Nicolaus de Gawir = N. Jauer, XXI, 160.
Nicolaus Germanus, see Donnus Nicolaus Germanus.
Nicolle, C., XIX, 301.
Nicolson, M. H., XXI, 574.
Nicomachus of Gerasa, XXI, 574.
Nicot, J., XIX, 541.
Niepce, J. N., XX, 266; XXI, 390.
Nierenstein, M., XIX, 266, 536, 591; XXI, 52-56, 123-28, 381, 574.
Nietzsche, F., XX, 569, 570, 571, 606.
Niewenhuis, A. W., XIX, 302, 442; XX, 607; XXI, 465.
Niewenhuis, G., XIX, 457.
Nikander, XXI, 342.
Nikephoros Bryennios, XIX, 386.
Nilakantha, XIX, 425.
Nilsson, M. P., XIX, 281, 417; XX, 577 f.
Niẓām-i 'Aruḍī, XIX, 530.
Niẓam al-Mulk, XXI, 272.
Nock, A. D., XXI, 423.
Noeldeke, T., XIX, 275.
Noguchi, H., XIX, 414.
Noguès, R., XX, 530.
Nohl, J., XXI, 574.
Nolhac, P. de, XXI, 496.
Nollet, J. A., XIX, 332, 359, 360.
Norden, J., XIX, 543.
Nordenskiöld, Eri., XXI, 574.
Nordenskiöld, Erl., XIX, 486; XXI, 412.

Nordlund, N. E., XXI, 143.
Nordmann, V. A., XXI, 375.
Norman, L. E. v., XIX, 415.
Norman, R., XIX, 238; XX, 256, 279.
Northrop, F. S. C., XIX, 295, 587; XXI, 574.
Norton, T., XIX, 536; XXI, 52-56.
Nostradamus, XIX, 34.
Notger de Liège, XIX, 187.
Nothnagel, H., XX, 225, 242.
Notton, C., XIX, 567.
Nour ad dīn, XX, 522.
Nourry, E., see Saintyves, P.
Noury, P., XX, 594.
Novalis (v. Hardenberg), XIX, 406.
Nowak, L., XIX, 394.
Nrsiṁha, see Narasiṁha.
Nūḥ ibn Manṣūr, XXI, 16.
Nunemaker, J. H., XIX, 533.
Nunes, P., XIX, 95, 236; XXI, 260, 278.
Nunn, G. E., XXI, 574.
Nussberger, M., XX, 551.
Nyberg, H. S., XIX, 582.
Nyessen, D. J. H., XIX, 567.
Nykl, A. R., XIX, 289; XXI, 572.

O

Oates, Cap., XXI, 411.
Oberlin, L., XIX, 411.
Obermaier, H., XXI, 575.
Oersted, H. C., XXI, 575.
Oesterley, W. O. E., XIX, 581.
Oettingen, W. F. v., XXI, 405.
Offner, R., XIX, 196.
O'Flynn, N., XXI, 575.
Ogata, K., XXI, 575.
Ogden, C. K., XIX, 452.
Ogura, K., XX, 305-07; XXI, 575.
O'Hara, C. W., XIX, 454.
Ohm, G. S., XX, 257.
Ólafsson, J., XX, 531.
Olbrechts, F. M., XIX, 605; XX, 544.
Oldcastle, H., XXI, 264.
Oldfather, W. A., XIX, 196; XX, 72-160; XXI, 575.
Oldham, C. E. A. W., XIX, 534; XXI, 391.
O'Leary, De Lacy, XXI, 575.
Oliaro, T., XXI, 469.
Oliver, F. W., XXI, 575.
Oliver, J. R., XX, 570.
Olivier, G., XIX, 394.
Olivier, T., XIX, 110, 120.
Olmstead, A. T., XIX, 284, 423.
Olschki, L., XXI, 575.
Olwer, L. N. d', XX, 578.
'Omar ibn al-Khaṭṭāb, XXI, 34.
Omerique, H. de, XXI, 578.
Omont, H., XX, 271.
Oppeln-Bronikowski, F. v., XXI, 413.
Oppianos, XX, 514.
Oppenheim, M. v., XIX, 564.
Orbigny, A. d', XX, 498.
Oresme, N., XXI, 150.
Orfila, J., XXI, 395.
Origène, A. D., XXI, 381.
Origenes, XIX, 38, 382.
Orlando-Salinas, F., XX, 554.
Ornstein, M., XXI, 575.
Orontius, F., XX, 494 f.
Orta, G. ab, XIX, 265; XXI, 576.
Ortega, J. de, XXI, 370.
Ortolanus, M., XXI, 160.
Ortroy, F. v., XX, 443 f.
Osborn, H. F., XIX, 424; XX, 291-93; XXI, 576.
Osborne, W. A., XXI, 576.
Osler, W., XXI, 407, 526, 576.

Ostachowski, E., XX, 531.
Osterhausen, J. K., XX, 553.
Osterhout, XX, 236, 244.
Ostrowski, A., XX, 559.
O'Sullivan, T., XXI, 468.
Ostwald, Wi, XX, 449; XXI, 390, 576.
Ôtsuki, N., XXI, 576.
Otter, C., XXI, 376.
Oudemans, A. C., XXI, 577.
Oudet, A., XX, 532.
Oughtred, W., XIX, 231; XXI, 519.
Overbeck, A., XXI, 184.
Overbeck, F., XX, 551.
Ovidio, E. d', XXI, 397.
Ovidius, XX, 513.
Owen, R., XX, 297 ff., 563.

P

Paal, H., XXI, 395.
Pacchioni, A., XX, 543.
Pachymère, G., XX, 440.
Pacificus, XXI, 351.
Pacioli, L., XXI, 264.
Packard, F. R., XIX, 245-47, 456, 551; XXI, 382, 469, 577.
Padmanābha, XIX, 484.
Padoa, A., XIX, 296.
Pagel, W., XIX, 610; XXI, 405.
Paget, J., XX, 606.
Pagnini, G. F., XXI, 249.
Paine, R. W., XIX, 601.
Palacios, M. A., XIX, 291.
Palhoriès, F., XXI, 415.
Palmer, H. D., XXI, 386.
Pamphilos, XX, 25.
Panayotatou, A. G., XXI, 577.
Panconcelli-Calzia, G., XIX, 540.
Paneth, F., XIX, 390.
Panikkar, K. M., XIX, 575.
Pao P'u Tzŭ, XIX, 525.
Papanti, P. L., XXI, 395.
Papin, D., XX, 536.
Papini, G., XXI, 577.
Papnutio, XX, 527.
Pappos of Alexandria, XIX, 381-2; XX, 440, 515; XXI, 424, 553.
Paracelsus, XIX, 263, 393, 394, 537, 538, 587; XX, 479, 527, 528, 529, 538; XXI, 190, 193, 205, 370, 371, 577, 582, 603.
Parat, M., XXI, 528.
Parchon, XX, 238, 244.
Paré, A., XXI, 577.
Paret, R., XXI, 438.
Paridis, XXI, 160.
Park, J. H., XIX, 552.
Parker, M., XXI, 538.
Parker, W., XXI, 396.
Parks, G. B., XXI, 577.
Parmenides, XXI, 225.
Parsons, C. L., XIX, 276; XXI, 398.
Parsons, R. P., XIX, 246.
Parsons, W. B., XXI, 577.
Partington, J. R., XIX, 256, 260, 287, 383, 387, 402, 439, 592; XX, 548; XXI, 203-06, 577; and passim.
Pascal, B., XIX, 231, 264, 265, 544; XX, 530, 605, 215; XXI, 276, 277, 375, 518, 523, 564.
Pascal, E., XX, 154.
Pascal, J., XX, 530.
Paschutin, XX, 222, 242.
Pasquier, G. du, XX, 74, 75.
Pasteur, L., XIX, 274, 301, 309, 587; XX, 568; XXI, 210, 404 f., 406, 512.
Pasteur-Vallery-Radot, L., XXI, 210, 406.

Pastor, J. R., XIX, 232.
Pastori, C., XXI, 446.
Patañjali, XXI, 613.
Patch, H. R., XX, 516.
Patrin, E. L. M., XX, 498.
Patten, N. v., XIX, 456, 538.
Patterson, B. C., XIX, 154-80; XXI, 388, 577.
Patterson, T. S., XX, 536; XXI, 385, 577.
Patzeld, E., XIX, 585.
Paucot, R., XXI, 578.
Paukstat, B., XX, 584.
Paul, C., XIX, 273, 411; XX, 568.
Paul, E., XIX, 273, 411; XX, 568.
Paul, J. H., XX, 300-02; XXI, 578.
Paul, St., XXI, 345, 346.
Paul de Middelburg, XIX, 367.
Paullin, C. O., XIX, 445.
Pawlinoff, XX, 225, 242.
Payne, E. W., XIX, 248.
Payen, A., XXI, 198.
Peachey, G. C., XIX, 403; XX, 554.
Peacock, G., XIX, 148.
Peano, G., XX, 189, 566, 597.
Pearl, R., XIX, 457, 532, 607; XX, 235, 244.
Pearson, K., XX, 75, 76; XXI, 578.
Pedro, A., XXI, 358.
Pedrotti, G., XIX, 599.
Peele, G., XIX, 36, 48, 53.
Peers, E. A., XXI, 578.
Peet, T. E., XIX, 279, 417; XX, 19, 20, 36, 42, 46, 52; XXI, 305-16, 578.
Peetersen-Fontainas, J., XXI, 473.
Peirce, C. S., XIX, 217-29; XXI, 578.
Peiresc, F. de, XX, 467; XXI, 283.
Pellegrini, F., XXI, 406, 425.
Pelletier, B., XXI, 206.
Pelliot, P., XX, 524, 538; XXI, 350, 363.
Pellizzari, A., XX, 517.
Pelseneer, J., XIX, 203-04, 241-45, 265, 268, 293, 296, 305, 432; XX, 467-70; XXI, 578.
Pelseneer, P., XXI, 579.
Pendred, L. S. L., XXI, 385.
Penniman, T. K., XXI, 413.
Penning, C. P. J., XIX, 606.
Penrose, B., XX, 532.
Penzer, N. M., XX, 464-67; XXI, 579.
Pepys, S., XIX, 547; XX, 540.
Pérard, M. A., XIX, 438.
Pérès, J., XXI, 579.
Périéteanu, A., XXI, 444.
Perkin, W. H., XIX, 207-08, 411; XXI, 579.
Perkins, W., XIX, 27, 28, 30, 31, 36, 38.
Perotti, N., XIX, 283.
Perrault, G., XX, 523.
Perrier, G., XXI, 440.
Perrin, F., XIX, 438; XXI, 452.
Perrin, H., XX, 551.
Perrin, J., XXI, 445.
Perroy, E., XIX, 283.
Perscrutator, XXI, 160.
Person, D., XIX, 28, 30.
Persson, P., XX, 573.
Perthes, XX, 239, 245.
Peschin, G., XIX, 394.
Pessagno, G., XXI, 369.
Pestalozzi, J. H., XX, 18; XXI, 387.
Peter of Leyden, XXI, 381.
Peters, C. H. F., XXI, 581.
Peters, R., XXI, 116.
Peters, T., XXI, 376.
Petersen, D., XXI, 559.
Petersen, J., XX, 558.
Petersen, W. F., XIX, 403.

Peterson, C., XX, 165, 184.
Peterson, H., XX, 297-98; XXI, 579.
Petif, C., XXI, 393.
Petit, A. T., XXI, 176.
Petit, H., XIX, 544.
Petrarca, XIX, 283.
Petri, N., XXI, 249.
Petrie, W. M. F., XXI, 417.
Pétrof, D. K., XIX, 289; XXI, 572,
Petronievics, B., XXI, 400, 579.
Petrucci, Ra., XXI, 579.
Petrus Bonus, XXI, 22.
Petrus de Dacia, XXI, 364.
Petrus de Zelence, XXI, 161.
Pettigrew, T. J., XIX, 503.
Petty, W., XIX, 549; XX, 537.
Petzoldt, E., XXI, 386.
Peuckert, W. E., XIX, 537.
Peurbach, G., XIX, 509.
Pezel, C., XIX, 52.
Pfaff, C. H., XIX, 591.
Pfaff, F., XXI, 341, 347.
Pfalz, A., XIX, 394.
Pfanmüller, G., XXI, 580.
Pfeiffer, F., XIX, 256.
Pfeiffer, G., XIX, 265.
Pfeiffer, M. A., XX, 542.
Pflaum, H.. XIX, 394, 532.
Pfuhl, E., XX, 25.
Philbrick, F. A., XIX, 592.
Phillpotts, B., XX, 531.
Philon of Alexandria = Philon the Jew, XIX, 254; XX, 513; XXI, 344.
Philoponos, J., XX, 311 f., 315; XXI, 531.
Photiadès, C., XIX, 404; XX, 558.
Phyllis, XXI, 590.
Pia, M., XX, 538.
Piaggio, H. T. H., XIX, 275.
Picard, E., XIX, 273, 293, 553; XX, 309 f., 560; XXI, 580.
Picard, F., XXI, 536.
Picard, P., XXI, 469.
Piccard, A., XXI, 411.
Pickering, J., XIX, 605.
Pickman, E. M., XIX, 266.
Pictet, A., XX, 238.
Pictet, M. A., XX, 255.
Piekarski, K., XIX, 365, 367.
Piepenbring, G., XIX, 591.
Pieper, W., XXI, 505.
Pierre de Saint-Omer, XIX, 390.
Piéry, M., XIX, 457 ff.
Pieterszoon, R., XXI, 279.
Pietro of Abano, XXI, 161.
Pigeire, J., XX, 548.
Piggott, S., XXI, 463.
Pijoan, M., XX, 538; XXI, 368.
Pilarino, G., XIX, 549.
Pilcher, L. S., XXI, 61.
Pillsbury, W. B., XIX, 447.
Pilon, E., XIX, 554.
Pina, L. de, XIX, 293, 303, 304.
Pincherle, B., XIX, 272, 554, 556.
Piney, A., XIX, 302; XXI, 580.
Pinkhof, H., XIX, 554.
Pinner, M., XIX, 412.
Pinot, V., XX, 482-84, 540; XXI, 580.
Pintard, R., XX, 467-70; XXI, 567.
Pirenne, H., XIX, 283, 422.
Piria, R., XXI, 390.
Pitiscus, B., XXI, 259.
Pitoni, R., XXI, 580.
Pitot, H., XIX, 100.
Pitrou, R., XX, 569.
Pizzagali, A. M., X X, 426; XX, 583.
Pizzaro, F., XXI, 596,
Pizzaro, H., XXI, 596.
Places, E. des, XXI, 343.

Plana, G. A. A., XXI, 609.
Plancius, P., XXI, 254, 279.
Planck, M., XIX, 298, 414; XX, 205, 490; XXI, 400, 445.
Planudes, M., XIX, 188.
Plate, L., XXI, 410.
Platearius, J., XXI, 530.
Platevoet, P., see Plancius, P.
Platon, XIX, 32; XX, 510; XXI, 341, 342, 343, 537.
Platon of Tivoli, XIX, 386, 531.
Plattard, J., XIX, 539; XXI, 580.
Plavilschtikoff, XX, 238, 244.
Playfair, E., XXI, 573.
Plenck, J. J., XXI, 98, 100.
Plenderleith, H. J., XX, 575.
Plessner, M., XIX, 289, 585.
Plethon, G. G., XX, 526.
Plinius, S., XXI, 9, 35, 346, 527, 543, 599.
Plotinos, XIX, 30.
Ploutarchos, XXI, 580.
Plücker, J., XIX, 170-73, 177, 179; XXI, 388.
Pogány, B., XXI, 454.
Pogo, A., XIX, 254, 262, 279, 281, 285, 294, 297, 380, 417, 434, 440, 447, 504-06, 540, 587; XX, 310-16, 443-44, 492-95, 571; XXI, 441, 581; and passim.
Poidebard, A., XIX, 420; XXI, 347.
Poincaré, H., XIX, 219, 242; XX, 188, 195, 196, 485, 490; XXI, 535.
Poirier, J., XIX, 554.
Poiseuille, J. L. M., XXI, 389.
Poisson, S. D., XIX, 134, 136; XX, 75, 167.
Pokrowski, G. I., XX, 206 f.
Polachek, H., XXI, 353.
Polain, L., XXI, 369.
Poley, A. F. E., XX, 536.
Policard, A., XXI, 454.
Poll, H., XIX, 596.
Pollak, O., XIX, 282.
Polo, M., XIX, 533 f.; XXI, 362, 581.
Polybios, XIX, 93, 94.
Poma de Ayala, F. H., XIX, 588.
Pommier, J., XIX, 272.
Pomponazzi, P., XIX, 395.
Pomponius Azalus, XX, 336.
Poncelet, J. V., XIX, 166, 169.
Popow, M., XX, 229, 243.
Porcher, J., XIX, 182.
Porcupine, P., XX, 548.
Pordenone, O. da, XIX, 534.
Porta, G. B. d., XIX, 591; XX, 496, 527; XXI, 255.
Posey, W. C., XIX, 458.
Posidonius, XXI, 415.
Post, G., XIX, 562.
Post, G. E., XX, 600.
Potonniée, G., XXI, 581.
Pott, XIX, 342.
Potter, L. de, XIX, 554.
Pottier, E., XIX, 279, 423, 516; XX, 10.
Poulton, E. B., XIX, 442; XXI, 445.
Pouppé, J., XXI, 468.
Poutrincourt, J. de, XXI, 375.
Powell, H. E., XX, 531.
Power, d'A., XIX, 312; XXI, 581.
Power, H., XX, 344-66; XXI, 71-80, 525.
Powicke, F. M., XIX, 284.
Poyer, G., XXI, 581.
Poynting, J. H., XXI, 185.
Praetorius, J., XXI, 259.
Prager, H., XIX, 566.
Pratt, F. H., XIX, 550; XX, 546.
Predeek, A., XX, 543.
Preisler, O. C. S., XXI, 581.
Prescott, F., XX, 551.

Pretzl, O., XX, 587.
Prévost, B., XXI, 111.
Prévot, E., XXI, 460.
Priber, C., XIX, 605.
Price (Dr.), XXI, 84 ff.
Price, B., XX, 193 f.
Price, F. M., XXI, 52-56.
Price, R., XX, 250.
Priestley, J., XIX, 276; XX, 249 ff., 417 f., 548, 550; XXI, 81-97, 169 ff., 185, 383, 385.
Prince, W., XXI, 116.
Pringsheim, E. G., XXI, 402.
Prior, M. E., XX, 540.
Prior, O. H., XXI, 387.
Pritchard, XXI, 229.
Prodicos, XIX, 419.
Profacius Judaeus, XXI, 605.
Prout, W., XX, 561; XXI, 177.
Provenzal, G., XX, 549.
Prudente, F., XXI, 394.
Prudentius, A. C.. XIX, 382.
Pruner, F., XIX, 409.
Przyluski, J., XIX, 567; XX, 581; XXI, 434.
Prahhotep, XXI, 308.
Ptolemaios, XIX, 19, 32, 61, 94, 158, 487 ff., 507, 523, 587; XX, 62, 196, 267-74, 312, 495, 514; XXI, 35, 331, 332, 347, 531, 581 f.
Ptolemaios II, XXI, 281.
Puccinotti, F., XXI, 395.
Pütter, XX, 235.
Puiseux, V., XX, 169, 172.
Pullè, F. L., XIX, 575; XXI, 430.
Pullè, G., XIX, 534.
Pupin, M., XXI, 582.
Purkinje, J. E., XIX, 272; XXI, 393.
Pusey, R. B., XIX, 274.
Pusey, W. A., XIX, 274; XX, 504-05; XXI, 582.
Pythagoras, XIX, 189, 587; XXI, 35, 560.

Q

Qāḍī-zāde Rūmī, XIX, 509.
al-Qalānisī, ibn, XIX, 531.
Qāsim al-'Irāqī, abu'l, XXI, 548.
Quetelet, L. A. J., XIX, 155, 156, 161-64, 167, 173, 174, 175, 177, 178, 179; XX, 426-35; XXI, 388, 524.
Quetif, XX, 335, 444.
al-Qifṭī, ibn, XX, 520; XXI, 16.
Qirqisānī, XXI, 353.
Quirious de Augustis de Terdona, XXI, 161.
Quwairī, XIX, 290.
Quynh, P., XXI, 346.

R

Raabe, W., XX, 50.
Raaf, J. E., XIX, 458.
Rabaud, E., XXI, 412, 536.
Rabbi ben Ezra, XIX, 232.
Rabbihi, ibn 'Abd, XX, 519.
Rabbinowitz, J., XIX, 581.
Rabelais, F., XIX, 539.
Rachmati, G. R., XX, 596; XXI, 427.
Rácz, S., XXI, 386.
Radcliffe, W., XXI, 582.
Rademacher, J. G., XXI, 395.
Rádl, E., XXI, 582.
Radolf de Liège, XIX, 187.
Raeder, H., XXI, 582.
Raeder, J., XIX, 384.
Raemdonck, J. v., XIX, 541.
Raffles, T. S., XXI, 391.

Raffy, L., XX, 189.
Raguin, E., XX, 568.
Rainoff, T. J., XX, 590; XXI, 440, 452, 582.
Ralegh, W., XIX, 543; XX, 531.
Ralli, A., XIX, 543.
Rāmānujācarya, N., XXI, 582.
Ramazzini, B., XXI, 371.
Rambaut, A. A., XXI, 142.
Ramón y Cajal, S., XXI, 582 f.
Ramorino, F., XX, 573.
Ramsbottom, J., XIX, 408; XXI, 122.
Ranadive, B. T., XIX, 575.
Rand, B., XX, 546.
Raney, M. L., XX, 615.
Raṇganātha, XIX, 472.
Ranke, H., XX, 41.
Rankine, M., XXI, 399.
Ransanus, P., see Ranzano, P.
Ranzi, S., XIX, 414.
Ranzano, P., XX, 444 f.; XXI, 605.
Rapson, E. J., XX, 583; XXI, 583.
Kashdall, H., XIX, 45.
Rashi, XX, 275, 276.
Rasmussen, K., XIX, 448.
Rasori, G., XXI, 394.
Raspail, F., XIX, 272.
Rathgen, B., XXI, 583.
Ratti, A., XX, 268.
Rauschardt, F. H., XX, 530.
Rava, L., XX, 538.
Ravaisse, P., XIX, 518.
Ravaisson, F., XXI, 409.
Ravenel, H. W., XIX, 408; XXI, 599.
Rawlinson, G., XXI, 8.
Ray, J., XXI, 543.
Rāy, P. C., XXI, 431, 583.
Rayer, F. O., XX, 505.
Rayleigh, lord, XX, 158; XXI, 601.
Raynaud, L., XXI, 469.
Rāzī, XIX, 259, 592; XX, 587; XXI, 18, 22, 26, 31, 50, 161, 205, 347, 539, 586, 599.
Rāzik, M. A., XXI, 351, 583.
Razzana, see Ranzano, P.
Read, B. E., XX, 584.
Read, J., XIX, 397.
Réaumur, R. A. F., de XIX, 99, 269; XX, 498; XXI, 192, 383, 583.
Recht, E., XIX, 396; XX, 613.
Recorde, R., XIX, 51, 62; XXI, 523.
Redan, P. see André, P. J.
Redi, F., XIX, 398; XX, 498; XXI, 379.
Rediades, P., XX, 315.
Redway, G., XIX, 55.
Reed, W., XIX, 247.
Reeve, S. A., XX, 599.
Regenbogen, O., XIX, 310.
Regener, E., XX, 206.
Reginald of Walsingham, XIX, 50.
Regiomontanus, XIX, 368 ff., 493, 509; XXI, 367.
Regnault, F., XIX, 305, 449.
Rehm, A., XX, 269, 513, 576.
Reiche, F., XXI, 583.
Reiche, K., XXI, 397.
Reichelt, H., XIX, 595.
Reichenbach, C. F. v., XXI, 396.
Reilly, J., XXI, 583.
Reinach, T., XXI, 417.
Reines, T., XX, 598.
Reinhard, (Magister), XIX, 491 ff.
Reitzenstein, R., XX, 598.
Rele, V. G., XIX, 426.
Remy, L. J., XXI, 543.
Renan, E., XXI, 409.
Renard, G., XXI, 583.
Renaud, H. P. J., XIX, 275, 386 f., 430, 585; XX, 585, 587; XXI, 435, 438, 583.

Renaudet, A., XIX, 283.
Renaudot, T., XX, 533.
Renauld, J. F., XIX, 415.
Renucci, S. F., XIX, 267.
Reparaz, G. de, XX, 609.
Réveille-Parisé, H., XX, 221, 241.
Revelli, P., XX, 515.
Rey, A., XIX, 200, 432; XX, 24; XXI, 224-26, 583.
Reye, T., XIX, 178.
Reymond, A., XIX, 415; XXI, 446.
Reynes, O., XX, 551.
Reynolds, E. E., XXI, 403.
Rhode, E. S., XIX, 443.
Riasonovsky, V. A., XIX, 567.
Ribaucour, A., XX, 183.
Ribbert, XX, 230, 243.
Ribera y Tarragó, J., XXI, 584.
Ribeiro dos Santos, A., XIX, 296.
Ricci, A., XIX, 534.
Ricci, M. A., XIX, 395.
Ricci, O., XIX, 541.
Ricci-Curbastro, G., XX, 188 f.
Riccioli, G. B., XXI, 448.
Rich, A. R., XXI, 392.
Richard, F., XXI, 358.
Richard of Wallingford, XXI, 161, 163.
Richards, G., XXI, 584.
Richards, T. W., XIX, 276.
Richardson, B. W., XX, 569; XXI, 406.
Richardson, H., XXI, 584.
Richardson, L. N., XIX, 400.
Richer de Reims, XXI, 193.
Richet, C., XXI, 406.
Richier, L., XIX, 394.
Richmann, G. W., XX, 249.
Richter, D., XIX, 591.
Richter, G., XX, 517; XXI, 438.
Richter, G. M. A., XIX, 417.
Richter, O., XXI, 403.
Richtmyer, F. K., XIX, 438.
Rickard, T. A., XXI, 334-36, 424.
Rickert, E., XIX, 261, 262.
Riddel, J. L., XIX, 409.
Ridgeway, W., XIX, 281.
Riebeck, J. v., XIX, 548.
Rieck, W., XX, 544, 554.
Riefstahl, R. M., XX, 523.
Riemann, G. F. B., XIX, 555; XX, 164, 173-77, 180 ff., 488.
Riesman, D., XIX, 456; XX, 449; XXI, 472.
Rif'at Pasha, I., XXI, 584.
Rignano, E., XIX, 277, 597; XXI, 584, 591.
Rigobon, M., XXI, 353 f.
Rihani, A., XIX, 586.
Rijnberk, G. v., XXI, 379.
Riley, H. T., XXI, 9.
Risso, XXI, 392.
Ritter, H., XX, 587.
Ritter, P., XX, 540.
Ritter, W. E., XX, 511.
Roback, A. A., XXI, 434, 584.
Robb, A. A., XX, 199 ff.
Robbins, F. E., XX, 513, XXI, 574.
Robert, W., XIX, 176.
Robert of Chester, XIX, 256; XXI, 209, 554.
Robert of York, XXI, 161.
Roberts, H. F., XIX, 599.
Roberts, M., XX, 173.
Roberts, W., XX, 173.
Robertson, XX, 237, 244.
Robertson, D. S., XIX, 281.
Robertson, J., XXI, 115.
Robertson, J. G., XX, 558.
Robertus Anglicus, XX, 493.
Roberval, G. P. de, XIX, 394; XX, 530.
Robillot, J., XIX, 289.
Robin, L., XXI, 584.

Robin, P. A., XIX, 601.
Robinson, D. M., XIX, 195.
Robinson, F. J., XXI, 456.
Robinson, H., XIX, 398.
Robinson, H. S., XX, 611.
Robinson, J. H., XXI, 584.
Robinson, L., XX, 540.
Robinson, M., XX, 348 ff.
Robinson, R., XIX, 207.
Robinson, V., XIX, 412; XX, 613.
Robinson, T. H., XIX, 581.
Robison, J., XX, 251, 252, 254; XXI, 175.
Roch, St., XIX, 392.
Rochd, ibn, XIX, 197, 257; XX, 67; XXI, 358 ff.
Rodrigues, O., XIX, 116.
Roeblings, (The), XIX, 273.
Römer, O., XX, 204.
Röntgen, W. K., XX, 572; XXI, 399, 401.
Roerich, G. v., XIX, 565.
Roerich, G. N., XIX, 565.
Rösel, R., XIX, 286, 576.
Rössle, XX, 236, 244.
Rössler, G., XIX, 540.
Roffredi, D. M., XXI, 106.
Roger of Hereford, XIX, 388.
Rohde, E. S., XXI, 584.
Rohr, M. v., XX, 597.
Roland-Cabaton, M. A., XXI, 428.
Rolleston, J. D., XX, 569; XXI, 406.
Rolph, J., XXI, 468.
Romanus, magister, XXI, 161.
Rome, A., XIX, 266, 298, 381-82, 583, 589; XX, 440, 512; XXI, 348, 349, 423, 424, 584.
Roomen, A. v., XXI, 209, 246, 253.
Roosevelt, K., XIX, 414.
Rosa, D., XIX, 597.
Rose, W., XIX, 415.
Rosemont, L. Reuter de, XIX, 313; XX, 615.
Rosen, V. v., XX, 284.
Rosenbaum, J., XIX, 312; XXI, 551.
Rosenbusch, H., XXI, 585.
Rosenfeld, L., XIX, 264; XXI, 585.
Rosenthal, A., XX, 565; XXI, 410.
Rosenthal, E., XX, 525.
Rosenthal, T., XIX, 409.
Roshdestvesnki, D., XXI, 454.
Roshem, J., XIX, 457 f.
Ross, D., XXI, 405, 406.
Ross, E. D., XIX, 530, 534, 563.
Rossa, B. T., XIX, 263.
Rossi, E., XIX, 272.
Rossignol, J., XIX, 294.
Rostovtzeff, M. I., XIX, 420.
Roth, G. B., XIX, 409.
Roth, L., XXI, 585.
Rothe, H. A., XXI, 125 ff.
Rotta, P., XXI, 211 f.
Rouch, J., XX, 599; XXI, 385.
Rouelle, G. F., XIX, 332, 334, 335, 341; XXI, 192.
Rouelle, H. M., XIX, 334.
Rouff, M., XXI, 585.
Rougier, L., XIX, 264 f.; XXI, 585.
Roule, L., XIX, 270, 559; XX, 551; XXI, 385.
Rousseau, J. J., XXI, 385, 387.
Routh, H. V., XIX, 44, 46.
Rowan, W., XIX, 601.
Rowland, W., XIX, 26, 27, 28, 31, 32, 33, 34, 37, 38, 40.
Rowlands, J. H., XIX, 426.
Roy, R., XX, 560.
Roya, M., XX, 551.
Royds, T. F., XXI, 585.
Rozier, J. F., XX, 407 f.
Rubertis, A. de, XX, 615.

Rubin, I., XXI, 386.
Rubner, M., XIX, 414; XX, 227, 243.
Rubruquis, see Guillaume de Rubruck.
Rudwin, M. J., XIX, 307, 449; XXI, 586.
Rudy, H., XIX, 263.
Rübel, E., XIX, 443.
Rückert, F., XIX, 256.
Rühle, O., XXI, 465.
Rütimeyer, L., XXI, 403.
Ruffi, T., XIX, 495.
Ruffin, P., XX, 556.
Rufinus, XIX, 390; XX, 445; XXI, 605.
Ruge, S., XIX, 486.
Rugerus the Priest, see Theophilus Presbyter.
Ruggiero, G. de, XIX, 432, 450.
Ruhräh, J., XX, 607; XXI, 396, 586.
Rumford, XX, 246, 253, 255, 257, 258; XXI, 171 ff.
Rupe, H., XXI, 400.
Ruppin, A., XIX, 581.
Ruska, J., XIX, 284, 430, 432, 435, 439, 440, 526, 592; XX, 302-05, 516, 587, 598; XXI, 14-15, 426, 587 f.
Russel, A. S., XXI, 530.
Russell, B., XIX, 223, 434; XX, 486, 491, ; XXI, 445, 587.
Russell, J. C., XIX, 388; XXI, 587.
Ruston, J. J., XIX, 555.
Rutherford, E., XIX, 410.
Ruyer, R., XIX, 310.
Ruysbroeck, XIX, 86.
Ruzicka, XX, 239, 245.
Rychlik, K., XIX, 405; XXI, 587.
Rydh, H., XIX, 306.
Rytz, W., XIX, 542.

S

Saadia, Gaon, XXI, 353.
Saba, A., XIX, 611.
Sabatier, XX, 224, 242.
Sab'īn, ibn, XIX, 583.
Sabin, J., XIX, 195.
Sablon, M. Leclerc du, XXI, 558.
Saccheri, G., XIX, 154.
Sacerdote, P., XXI, 330.
Sachs, C., XIX, 309.
Sachs, J. v., XXI, 8, 402.
Sade, D. A. F., XXI, 495.
Sa'di, XIX, 260.
Sa'di, Lufti M., XXI, 426.
Ṣafī al-dīn, XX, 280.
Sageret, J., XXI, 587.
Sagnac, P., XIX, 420.
Sā'id al-Andalusī, ibn, XIX, 527, 528, 530; XX, 260.
Sa'id b. Hibatallāh, XIX, 290.
St. Emmeram, P. H., XX, 547.
Saint-Périer, R. de, XXI, 463.
Saint-Rat, L. de, XXI, 587.
Saint-Venant, A. J. C. de, XX, 168 ff.
St. Vincent, Bory de, XIX, 309.
Sainte-Claire-Deville, C. J., XXI, 390.
Sainte-Claire-Deville, H., XIX, 309.
Sainte-Laguë, A., XXI, 458.
Saintyves, P., XIX, 448; XXI, 587.
Sakanishi, S., XIX, 285; XX, 581.
Sakurazawa, N., XIX, 567.
Salecker, K., XX, 540.
Salis, J. R. de, XX, 558.
Salkowski, E., XX, 183.
Saller, K., XIX, 566.
Sallin, A., XIX, 436.
Salmon, G., XIX, 174.
Salmonsen, E. M., XX, 318; XXI, 613.

al-Sam'ānī, XIX, 388.
al-Samḥ, ibn, XIX, 511; XX, 261.
Sampson, R. A., XIX, 212; XXI, 131-34.
Sánchez Pérez, J. A., XXI, 587.
Sand, R., XXI, 587.
Sandberger, XIX, 207.
Sandfeld, K., XIX, 452.
Sandys, J. E., XXI, 588.
Sangro, R. di, XXI, 384.
Sanuto, M., XX, 529.
Santorio, S., XIX, 396.
Santos, V., XIX, 270.
Sapin, L., XIX, 235-37, 255, 269, 280, 281, 283, 421; XXI, 414; and passim.
al-Saqaṭī, XIX, 528.
Sarasin, A., XIX, 576.
Sargon II, XX, 476.
Sarkar, B. K., XXI, 588.
Sarne, XXI, 162.
Sarrazin, M., XXI, 468.
Sarre, F., XIX, 255.
Sartiaux, F., XIX, 606.
Sarton, G., XIX, 6-10, 12-14, 15-18, 158, 201-03, 254, 255, 257, 268, 271, 286, 293, 294, 322-29, 380, 381, 382, 384, 385, 386, 387, 399, 401, 405, 417, 424, 425, 427, 429, 430, 432, 445, 450, 451, 503, 515-16, 521-23, 524, 527, 529, 530, 545, 546, 554, 556, 581, 585, 586, 587, 589, 593, 596, 603, 606, 607; XX, 6-14, 260-65, 267-74, 280-85, 300-02, 442, 448, 451-54, 454-57, 472-74, 474-78, 480-82, 499-503, 508, 518, 519, 521, 524, 525, 527, 580, 584, 586, 590, 591, 601, 607, 612; XXI, 5-7, 8-13, 207-10, 213-15, 218-20, 221-24, 224-27, 233, 241-303, 305-16, 316-19, 330-34, 334-36, 340, 359, 360, 367, 369, 372, 382, 408, 430, 438, 448, 488-502, 588-92; and passim.
Sassoon, D. S., XIX, 581.
Sāstri, P. P. S., XIX, 576.
Sāstri, S., XXI, 592.
Sāstri, S. K., XIX, 474.
Sāstrī, T. G., XX, 521.
Saunders, XX, 211.
Sauria, C., XIX, 406.
Saussure, H. B. de, XXI, 538.
Saussure, L. de, XIX, 287; XXI, 592.
Saussure, R. de, XIX, 447; XXI, 462.
Sauvaget, J., XX, 522.
Savage, H. L., XX, 579.
Savage, S., XIX, 408.
Savasorda, see Abraham bar Ḥiyya.
Savitz, H. A., XIX, 389.
Savjalov, W. W., XX, 233.
Savonarola, XIX, 34; XX, 526.
Saxl, F., XIX, 504-06; XXI, 350, 592.
Say, T., XXI, 610.
Sayce, A. H., XIX, 604; XXI, 409, 419.
Scalais, R., XX, 513.
Scalinci, N., XIX, 257, 531; XX, 545.
Scardapane, N. M., XIX, 296; XX, 546.
Scarpa, A., XIX, 403, 446; XX, 553; XXI, 395.
Scellinck, T., XXI, 592.
Schaal, H., XX, 439.
Schacht, J., XX, 587.
Schachter, M., XIX, 526; XXI, 470.
Schadelbauer, C., XXI, 375.
Schäfer, A., XIX, 409.
Schäfer, H., XIX, 16, 24, 28, 39.
Schaeffer, C. F. A., XX, 478.

Schäfli, L., XX, 181.
Schapira, H., XX, 275, 276.
Schapiro, D., XIX, 458.
Scharff, A., XX, 41.
Schark, F., XIX, 70.
Scharold, H., XX, 523.
Schaub, E. L., XXI, 380.
Schaudinn, F., XIX, 415.
Schebesta, P., XXI, 465.
Scheele, C. W., XIX, 591; XX, 253, 416 f., 549, 550; XXI, 192.
Scheftelowitz, I., XX, 583.
Schelenz, H., XXI, 304.
Scheil, V., XXI, 419.
Schell, W., XX, 184.
Schelver, D., XX, 562.
Schepotjeff, XX, 234, 244.
Schepp, A., XX, 154.
Schering, A., XIX, 452.
Scherk, H. F., XX, 166.
Scheuchzer, J. J., XXI, 381.
Scheybl, J., XIX, 364, 372, 376, 377.
Schiaparelli, G., XXI, 593.
Schierbeek, A., XIX, 548; XX, 538.
Schiff, J., XX, 287-90, 549, 558; XXI, 392, 546.
Schiffmann, S., XIX, 387.
Schiffner, C., XXI, 505.
Schiller, F., XX, 558.
Schiller, W., XXI, 403.
Schimank, H., XXI, 390.
Schläfli, L., XXI, 398.
Schlaginhaufen, O., XXI, 398.
Schleiden, M. J., XXI, 392, 393.
Schleiermacher, A., XXI, 179, 185.
Schleip, XX, 234, 244.
Schlesinger, F., XIX, 555.
Schlesinger, L., XX, 203, 559.
Schlick, M., XX, 203.
Schmalhausen, XX, 239, 245.
Schmidt, A., XIX, 538; XXI, 593.
Schmidt, C., XX, 449.
Schmidt, C. L. A., XIX, 593.
Schmidt, G. G., XXI, 390.
Schmidt, H., XXI, 593.
Schmidt, M. C. P., XXI, 593.
Schmidt, N., XIX, 535.
Schmidt, P. W., XIX, 607.
Schmieder, K. C., XXI, 14.
Schmieder, W., XIX, 389.
Schmitt, C., XIX, 544.
Schnabel, P., XX, 269; XXI, 426.
Schneider, F., XIX, 390.
Schneider, I., XX, 203.
Schnürer, G., XX, 579.
Schoch, C., XXI, 581.
Schönebaum, H., XXI, 387.
Schöner, J., XIX, 493, 509.
Schönlein, J. L., XX, 505.
Schopenhauer, A., XIX, 137, 146; XX, 605; XXI, 390.
Schorlemmer, XIX, 207.
Schor, D., XXI, 286.
Schorr, P., XIX, 400-01.
Schott, A., XXI, 419.
Schott, G., XIX, 364; XX, 496, 497.
Schottenloher, K., XX, 443 f.
Schoy, K., XIX, 492; XX, 263, 310; XXI, 586, 593 f.
Schrade, L., XIX, 393.
Schrader, F. O., XIX, 576.
Schreiber, E. W., XIX, 275.
Schrempf, C., XX, 558.
Schröder, L. v., XXI, 594.
Schroeder v. d. Kolk, J. L. C., XX, 562.
Schrödinger, E., XIX, 295; XX, 490.
Schub, P., XIX, 262; XX, 530; XXI, 594.
Schubert, F. T., XX, 164.
Schuchardt, C., XX, 437.

Schudt, L., XIX, 281.
Schütte, F., XIX, 229.
Schütte, G., XXI, 594.
Schütze, M., XX, 556.
Schultz, J. C., XXI, 468.
Schultz, W., XXI, 594.
Schultze, E., XX, 228, 243.
Schultzik, R., XX, 540.
Schulz, W., XIX, 555.
Schumacher, F., XXI, 505.
Schur, F., XXI, 410.
Schuster, A., XXI, 400.
Schuster, F., XIX, 262.
Schuster, J., XX, 559.
Schuyler, H., XIX, 273.
Schwabe, R., XIX, 451.
Schwalbe, E., XXI, 594.
Schwangart, F., XIX, 601.
Schwann, T., XIX, 553; XXI, 392.
Schwartz, J. J., XIX, 586.
Schwarz, H. A., XX, 183.
Schweinfurth, G., XXI, 594.
Schwenter, D., XXI, 259.
Schwering, J., XXI, 406.
Schwerz, J. N., XXI, 106.
Scolten, A., XIX, 545.
Scot, R., XIX, 27, 39.
Scott, G. B., XIX, 565, 576.
Scott, J. G., XIX, 568.
Scott, R., XIX, 280; XXI, 561.
Scott, W., XX, 464; XXI, 595.
Scremin, L., XIX, 396.
Scriabine, XX, 570.
Scuder, V. D., XIX, 258.
Scuderi, R., XX, 554.
Sears, C. E., XXI, 595.
Sebiz, M., XXI, 284.
Sēbōkht, S., XX, 311.
Seddon, C. M., XXI, 359.
Seddon, J., XXI, 83, 84.
Sedgwick, H. D., XXI, 595.
Sedky bey, M., XX, 520.
Sée, H., XXI, 409.
Seelye, K. C., XXI, 595.
Seemann, H. J., XXI, 595.
Segato, G., XXI, 392.
Seger, J., XIX, 386.
Segond, J., XX, 534, 541.
Segre, B., XIX, 435; XXI, 449.
Seide, J., XX, 545.
Seifert, A., XXI, 391.
Seki, XX, 306.
Selle, G. v., XIX, 274.
Sellin, E., XIX, 581.
Selmi, F., XIX, 299; XXI, 542.
Semple, E. C., XIX, 445.
Sénancourt, E. P. de, XX, 606.
Seneca, L. A., XIX, 524.
Senff, K. E., XX, 165.
Senftleben, H., XXI, 185.
Sengupta, P. C., XIX, 255, 383, 426, 574, 576.
Senn, E., XXI, 396, 407.
Sennachérib, XX, 476.
Serao, F., XX, 611.
Serapio the Elder, XXI, 351.
Sergescu, P., XXI, 449.
Sérieux, P., XXI, 472.
Serret, J. A., XX, 169, 171.
Serret, P., XX, 172, 184.
Setchell, W. A., XX, 567, 568, 600, 601.
Seters, W. H. v., XIX, 548.
Seurat, L. G., XXI, 460.
Sewell, R. B. S., XIX, 426.
Sextius, N., XXI, 342.
Seyrig, H., XIX, 423.
s'Gravesande, C. v., XIX, 548; XXI, 215.
Sha, C. J., XIX, 576.
al-Shabībī, XIX, 202.
Shackleton, E., XXI, 412.
Shafi', M., XX, 519.

Shakespeare, XIX, 69-73, 543; XXI, 373, 520.
Shānāq, XX, 587.
Shapley, H., XXI, 595.
Sharaf, M., XX, 455.
Sharenkoff, V. N., XIX, 607.
Sharp, J. A., XXI, 595.
Shaw, M. B., XXI, 471.
Shaw, N., XIX, 446.
Shear, C. L., XXI, 385.
Shearer, A. H., XIX, 308, 460; XXI, 532.
Sheffer, H. M., XIX, 224.
Shellabear, W. G., XXI, 438 f.
Shem-ṭob, I., ibn, XX, 526.
Shem-ṭob, ibn Shem-ṭob, XX, 527.
Shem-ṭob, Shem-ṭob ben Joseph, ibn, XX, 527.
Shepherd, O., XIX, 601.
Sheppard, H. R. L., XIX, 454.
Shiletto, A. R., XIX, 52.
Shimaji, D., XXI, 429.
Shinizu, T., XX, 572.
Shipman, H. R., XIX, 308, 460; XXI, 532.
Shippen, W., XX, 503, 554.
Shorey, P., XX, 510.
Shotwell, J. T., XXI, 596.
Shryock, J., XIX, 287, 427.
Schuette, H. A., XXI, 456.
Shunjô Hôin, XXI, 596.
Siddiqi, Z., XIX, 526.
Siderski, D., XIX, 431, 581; XX, 512; XXI, 419.
Sidney, P., XIX, 51.
Siegel, C., XXI, 596.
Siegel, C. L., XIX, 555.
Siegfried, C., XX, 598.
Siegmund, G., XXI, 403.
Siemens, F., XIX, 272.
Sies, J., XIX, 394.
Sigerist, H. E., XIX, 456, 457, 458; XX, 569, 614; XXI, 238, 337-38, 407, 462, 469, 470, 596.
Sigmund, C. L., XX, 563.
Sigorgne, XX, 378 ff.
Silva-Tarouca, C., XIX, 422.
Silverijser, F., XXI, 376.
Silverstein, H. T., XIX, 534.
Simeika, M., XXI, 439.
Simler, J., XIX, 452.
Simon, C., XX, 426.
Simon, Mau., XIX, 582.
Simon, Max, XIX, 231.
Simon, P., XXI, 426.
Simons, L. G., XIX, 552; XX, 560; XXI, 234-35, 236, 373, 380, 403, 449, 596.
Sims, J. M., XIX, 247.
Simson, H., XX, 573.
Simon, R., XX, 249, 251.
Sīnā, ibn, XIX, 387, 511; XX, 55 ff., 280, 450, 479, 519, 520, 587; XXI, 14-51, 354.
Ṣincai, G., XX, 550.
Sinclair, J., XXI, 108.
Sinclair, J. H., XXI, 596.
Singer, C., XXI, 596, 602.
Singer, D. W., XIX, 422, 534; XXI, 597.
Sipos, P., XXI, 380.
Sirén, O., XIX, 424.
Sirkar, K. L., XXI, 597.
Sismondi, XX, 558.
Sitter, W. de, XX, 316-18; XXI, 324, 325, 597.
Skoss, S. L., XXI, 353.
Sloane, H., XX, 471.
Sluse, R. F. W. de, XIX, 95, 96; XXI, 585.
Smart, W. M., XX, 209.
Smith, Adam, XX, 555.
Smith, Al., XIX, 276.
Smith, D. E., XIX, 293, 550, 561;

XX, 546; XXI, 398, 450, 529, 597 f.
Smith, E. B., XIX, 563.
Smith, E. C., XIX, 553.
Smith, Ed. F., XIX, 275, 276, 277; XXI, 517, 598.
Smith, Er. F., XXI, 115.
Smith, F., XXI, 598.
Smith, F. P., XX, 584.
Smith, G. E., XIX, 578; XXI, 445, 598.
Smith, N. K., XIX, 146, 153; XX, 557.
Smith, R. A., XXI, 463.
Smith, T., XX, 569, 572.
Smith, W., XIX, 550.
Smoluchowski, M., XXI, 183.
Snellius, W., XIX, 95; XXI, 245, 257, 261, 279.
Snyder, A. D., XIX, 311.
Sobrero, A., XXI, 543.
Sobhy, G. P. G., XX, 455-57; XXI, 598.
Socinus, F., XXI, 375.
Socrates, XIX, 417; XXI, 35, 340.
Soddy, F., XXI, 183.
Söderblom, N., XIX, 278.
Sörensen, J., XIX, 556-57.
Solino, XX, 515.
Solomon (pseudo), XIX, 382.
Solomon, J. D., XIX, 305.
Soltau, K., XXI, 371.
Somadeva, XXI, 355.
Sommerfeld, A., XXI, 410.
Somogyi, J. de, XIX, 532, 534; XX, 525; XXI, 365, 366.
Soouthern, J., XIX, 52.
Sosigenes, XXI, 139.
Soubeiran, XXI, 391.
Soulié, H., XXI, 469.
Soulié de Morant, G., XIX, 427.
Soulier, G., XXI, 365.
Souques, A., XXI, 341.
Southworth, C., XIX, 445.
Spallanzani, L., XIX, 455; XX, 498, 551 f.; XXI, 192, 598.
Sparks, J. B., XIX, 602.
Sparn, E., XIX, 460.
Speiser, A., XX, 436.
Speleers, L., XIX, 424.
Spence, L., XXI, 598.
Spencer, H., XIX, 221; XXI, 413, 588.
Spencer, H. R., XX, 554.
Spengler, O., XIX, 606; XXI, 598.
Spergling, H., XIX, 582.
Sperling, O., XXI, 598.
Speter, M., XX, 542, 549; XXI, 391, 396.
Speyer, J. S., XXI, 598.
Spiegel, K., XIX, 404.
Spiegelberg, W., XX, 575.
Spiess, O., XIX, 384, 584.
Spinoza, B., XIX, 266; XX, 539, 540, 541; XXI, 380, 574, 590.
Sprat, T., XXI, 448.
Sprengling, M., XIX, 285, 424, 607.
Srīdhara, XIX, 484; XXI, 350, 527, 582.
Śrīpati, XIX, 478, 481.
Staber, J., XIX, 95.
Stace, W. T., XX, 485-88; XXI, 599.
Stacey, M. H., XXI, 402.
Stäckel, P., XX, 151, 162, 190.
Staehle, C., XIX, 254; XX, 513.
Stahl, G. E., XIX, 594; XXI, 568.
Stanley, W., XIX, 52; XX, 568.
Stapf, O., XIX, 443.
Stapleton, H. E., XIX, 286, 384, 431; XXI, 599.
Stas, J. S., XX, 561.
Staude, O., XXI, 410.
Staudt, C. G. C. v., XIX, 230.

Stawell, F. M., XIX, 281.
Stcherbatsky, T., XX, 509.
Stearns, B. M., XIX, 410.
Stearns, J., XX, 503.
Steele, R., XIX, 45, 50, 533; XX, 53-71; XXI, 599.
Steensby, H. P., XXI, 599.
Stefan, J., XXI, 182.
Steichen, M., XXI, 286.
Steier, A., XXI, 599.
Steiger, R., XXI, 381.
Stein, A., XX, 583; XXI, 343.
Stein, H., XXI, 465.
Stein, I. H., XXI, 366.
Stein, O., XX, 510.
Steinach, XX, 239, 245.
Steiner, A., XX, 523.
Steiner, J., XIX, 155, 164-69, 170, 171, 177, 178, 179; XX, 166; XXI, 388.
Steiner, W. R., XXI, 387.
Steinitzer, A., XIX, 542.
Steinmetz, H. C., XX, 613.
Steinmetz, S. R., XXI, 599.
Steinschneider, M., XIX, 385, 531, 557; XX, 275, 276; XXI, 15, 23.
Stel, S. v. d., XX, 538.
Stels, S. v. d., XIX, 548.
Stengel, A., XXI, 472.
Stenger, E., XIX, 555.
Stenzel, J., XIX, 453; XXI, 343.
Stephanides, M., XIX, 293; XX, 511; XXI, 427, 599.
Stephenson, John, XXI, 412, 599.
Stephenson, Jos., XIX, 408; XX, 449, 524.
Stern, P., XX, 587; XXI, 430.
Stevens, N. E., XIX, 408, 443; XXI, 98-122, 599.
Stevenson, E. L., XX, 270-74; XXI, 599 f.
Stevin, F., XXI, 245, 246, 268.
Stevin, H. XXI, 245, 246, 263, 268, 269.
Stevin, S., XIX, 95, 352; XXI, 207, 241-303, 373.
Steward, G. C., XXI, 388.
Steward, Jo., XIX, 52.
Stewart, Ja., XXI, 105.
Stewart, Jo., XIX, 143, 144.
Sticker, G., XIX, 538.
Stieda, W., XX, 541; XXI, 383.
Stifel, M., XXI, 273.
Stillman, C. G., XX, 294-96; XXI, 600.
Stillman, J. M., XXI, 600.
Stiliwell, M. B., XXI, 600.
Stimson, D., XIX, 399, 433; XXI, 600.
Stirling, J., XXI, 606.
Stirling, W., XXI, 61.
Stockman, R., XIX, 459.
Stoddard, L., XXI, 600.
Stöckl, K., XIX, 544.
Stöffler, XIX, 493.
Stokes, J. H., XIX, 415.
Stoltzer, T., XIX, 394.
Stomps, T. J., XIX, 597.
Stone, Ed., XIX, 131, 132.
Stone, Er., XIX, 247-48; XXI, 465, 600.
Stone, E. N., XIX, 307.
Stone, G., XXI, 600.
Stone, W., XIX, 408.
Stones, G. B., XXI, 600.
Stow, J., XIX, 51.
Strack, H. L., XIX, 581.
Straker, E., XIX, 301.
Streeter, B. H., XIX, 454.
Streeter, E. C., XXI, 520.
Streeter, G. L., XIX, 302, 442.
Strejo, D., XIX, 545.
Strigelius, V., XXI, 375.
Stringfellow, XIX, 405.

Strobl, C. H., XXI, 396.
Strohl, J., XIX, 597.
Stromayr, C., XXI, 600.
Strowski, F., XIX, 539.
Strubell-Harkort, A., XXI, 377.
Struensee, J. F., XIX, 403.
Struik, D. J., XIX, 92-120, 558; XX, 161-191; XXI, 450, 600.
Struik, R., XX, 512; XXI, 601.
Strunz, F., XIX, 393, 394, 537; XX, 528; XXI, 363.
Strutt, R. J., XXI, 601.
Struve, W. W., XX, 20, 21, 36; XXI, 601.
Strzygovwski, J., XIX, 563; XXI, 601.
Stuart, G. A., XX, 584.
Stubbes, P., XIX, 29, 35, 37, 38.
Stubbes, J. W., XIX, 175, 176, 179.
Studer, P., XXI, 601.
Studnička, F. K., XIX, 271; XXI, 392.
Stüve, R., XXI, 393.
Sturm, C., XIX, 162, 174.
Sturt, M., XX, 215, 286-87, 535; XXI, 601.
Stutterheim, W. F., XIX, 568.
Suali, L., XX, 509; XXI, 601.
Suchier, W., XX, 552.
Sudhof, K., XIX, 538; XX, 521; XXI, 342, 371, 407, 417, 424, 426, 471, 601 f.
Suhrāb, XIX, 527.
Suiseth, R., XXI, 162.
Sukenik, E. L., XIX, 428.
Sukthankar, V. S., XIX, 576.
Suleiman, XX, 528.
Sullivan, J. W. N., XXI, 450.
Sully, XIX, 236; XXI, 264.
Sun Yat-sen, XX, 481.
Sunderland, H., XXI, 507.
Sung Hwang Yu, XIX, 287.
Suringar, J. V., XX, 552.
Sūryadāsa, XIX, 476, 479.
Suśruta, XIX, 574 f.
Suter, H., XIX, 430, 509, 527; XXI, 583, 586, 602.
Sutherland, W., XXI, 576.
Suys, E., XX, 541.
Suzuki, D. T., XIX, 426, 577.
Sùzuki, S., XX, 206.
Sviatski, D., XIX, 536.
Svoronos, J. N., XX, 315.
Swabey, W. C., XXI, 521.
Swabey, M. C., XXI, 521.
Swadlin, T., XIX, 63.
Swammerdam, J. XX, 498; XXI, 228.
Swan, J., XIX, 58, 63, 64, 66, 67.
Swedenborg, E., XIX, 550; XX, 248, 546.
Swediaur, F., XIX, 609.
Sweet, W. W., XIX, 454.
Swieten, J. v., XX, 545.
Swinden, J. H. v., XX, 546; XXI, 383.
Swingle, W. T., XIX, 285; XX, 581, 584.
Swynshede, R., see Suiseth, R.
Sydenham, T., XIX, 398; XX, 538.
Synge, J. L., XX, 205; XXI, 388.
Szathmáry, L. v., XX, 552.
Szczygiel, P. P., XIX, 380; XXI, 602.
Szelinski, XX, 545.
Szücs, A., XXI, 450.
Szumowski, W., XIX, 312.

T

al-Ṭabarī, XIX, 532; XXI, 569.
Tachenius, O., XIX, 591.
Tacquet, A., XIX, 266; XXI, 514.

Taddei, A., XIX, 538.
Taeschner, F., XX, 526, 585.
Tafel, V., XXI, 505.
Taft, R., XXI, 456.
Taggart, W. T., XIX, 277.
Taggliacozzi, G., XIX, 455.
al-Ṭaḥāwī, XXI, 352.
T'ai-tsu, XX, 324 ff.
Taimūr, A., XX, 283, 284.
Tait, P. G., XX, 149.
Takakusu, J., XXI, 350, 428.
Takayama, S., XXI, 433.
Ṭalib, 'Alī ibn Abī, XXI, 34.
Tallmadge, G. K., XXI, 602.
Talman, C. F., XIX, 503; XXI, 461.
Talmey, M., XIX, 558.
Tamaru, T., XX, 572.
Tanabe, H., XXI, 602.
Tànfani, G., XIX, 263, 538; XXI, 426.
Tannenberg, W. de, XX, 189.
Tanner, R., XX, 493.
Tannery, P., XIX, 433, 511, 512, 513, 515-16; XXI, 442, 602.
Tannery, P. Mme, XX, 467-70; XXI, 376.
Tansley, A. G., XXI, 457.
T'ao Hung-Chin, XIX, 525.
Taqī al-dīn Moḥ. ibn Ma'rūf, XIX, 509.
Taranovich, V. P., XXI, 381.
Tarski, A., XX, 591.
Tartaglia, N., XIX, 393; XXI, 535.
Tass, A., XXI, 453.
Tatlock, J. P. S., XXI, 365.
Tavera, T. H. Pardo de, XX, 613.
Tavernier, J. B., XX, 538.
Tawney, C. H., XXI, 355.
Taylor, C. H., XXI, 603.
Taylor, E. G. R., XIX, 263, 537; XXI, 370.
Taylor, F. S., XIX, 561.
Taylor, F. W., XXI, 603.
Taylor, H. O., XXI, 603.
Taylor, J. E., XXI, 401.
Taylor, L. R., XIX, 420.
Taylor, M., XX, 570.
Taylor, T. H. C., XIX, 601.
Tazawa, K., XIX, 427.
Tchébichof, P. L., XX, 184.
Teeple, J. E., XXI, 603.
Teichmann, XX, 228, 243.
Teilhard de Chardin, P., XIX, 304.
Telesio, B., XXI, 603.
Temkin, O,. XX, 510; XXI, 424.
Temple, R. C., XIX, 306, 575; XX, 531.
Tennant, F. R., XIX, 434.
Tenon, J. R., XXI, 387.
Terman, L. M., XIX, 447.
Termier, P., XIX, 277; XX, 568; XXI, 603.
Terrier, C., XIX, 548.
Tesch, J. W., XXI, 286.
Tesdorpf, P. H., XX, 562.
Tesla, N., XXI, 411.
Testi, A., XIX, 554.
Testi, G., XIX, 301, 440, 558, 587; XX, 550.
Thābit ibn Qurra, XIX, 384, 507 ff.; XXI, 586, 603.
Thacher, J., XXI, 387.
Thalamas, A., XXI, 603.
Thales, XIX, 587; XXI, 225.
Thaller, L., XIX, 293.
Thatcher, O. J., XIX, 54.
Thayer, W. S., XXI, 407.
Theiler, W., XIX, 453.
Theis, E., XIX, 407.
Thellung, A., XIX, 599.
Themistius, XIX, 289.
Themo, XXI, 162.
Theodoricus Carnotensis, XXI, 213.
Theodosios of Tripoli, XIX, 128.

Theon of Alexandria, XIX, 381-82, 523; XX, 440, 512; XXI, 349, 424.
Theophilus Presbyter, XIX, 387, 530.
Theophrast von Hohenheim, see Paracelsus.
Theophrastos, XXI, 8, 9, 11.
Thérèse, Ste, XX, 605.
Thevenot, M., XIX, 398.
Thiel, V., XIX, 595.
Thierfelder, J. G., XIX, 312; XXI, 551.
Thiéry, M., XX, 552.
Thios, XIX, 383.
Thomas, B., XIX, 291, 431.
Thomas, P., XX, 573.
Thomas, W. H., XIX, 605.
Thomas of Aquinas, XIX, 78, 81, 82, 84, 259, 260.
Thomas of Bologna, XXI, 162.
Thomas of Brabant, XXI, 535.
Thomas-Stanford, C., XXI, 604.
Thompson, B., XXI, 171.
Thompscn, C. J. S., XIX, 54; XXI, 455.
Thompson, D. V., XIX, 531.
Thompson, D. V. jr., XX, 521.
Thompson, E. K., XXI, 459.
Thompson, Her., XXI, 423.
Thompson, Hol., XXI, 604.
Thompson, J. E., XIX, 308.
Thompson, J. W., XIX, 422; XXI, 604.
Thompson, J. W. T., XIX, 256; and passim.
Thompson, R. C., XIX, 561; XXI, 420, 604.
Thompson, S., XX, 607.
Thompson, S. P., XXI, 550.
Thoms, H., XX, 503-04; XXI, 604.
Thomsen, P., XXI, 349.
Thomsen, V., XXI, 523.
Thomson, E., XXI, 398.
Thomson, J. A., XIX, 454, 597; XXI, 604.
Thomson, J. J., XIX, 438; XX, 149.
Thomson, S. H., XIX, 19-25; XXI, 301, 604.
Thomson, T., XX, 258; XXI, 176.
Thomson, W., XIX, 176, 384; XX, 173, 274-80; XXI, 553.
Thonet, M., XIX, 552.
Thorade, H., XIX, 602.
Thorláksson, G., XIX, 237.
Thorláksson, T., XIX, 237.
Thorndike, L., XIX, 45, 53, 259, 390, 392, 400, 535; XX, 260, 335-36, 447; XXI, 144-68, 426, 604-606, 615; and passim.
Thoroddsen, T., XIX, 237, 239, 240.
Thorpe, J. F., XIX, 207.
Thorpe, T. E., XXI, 81.
Thureau-Dangin, F., XX, 47, 576, 594; XXI, 420, 421, 422.
Thurnwald, R., XIX, 448.
Thyssen, E. H. M., XIX, 545.
Tiberghien, A., XIX, 396, 443, 542, 544; XXI, 393.
Tideus, XXI, 162.
Tierie, G., XX, 285-86; XXI, 606.
Tille, A., XXI, 606.
Tillet, M., XXI, 111.
Tillotson, J., XX, 349.
Timotheos of Gaza, XIX, 382.
Tinseau, C. M. T., XIX, 108.
Tiraboschi, G., XIX, 403; XX, 553.
Tiraquellus, XXI, 162.
Titley, A., XIX, 549, 553.
Tkatsch, J., XX, 511.
Tocantins, L. M., XXI, 470.
Tocqueville, A. de, XXI, 493
Todd, G. W., XXI, 185.

Todhunter, I., XX, 75, 76, 154.
Toeplitz, O., XX, 512; XXI, 343.
Tolhopf, J., XXI, 162.
Tolmie, W. F., XXI, 468.
Tomkis, T., XIX, 41.
al-Ṭoneizī, ibn, see al-Ṭunbarī.
Toni, G. B. de, XXI, 393.
Topsell, E., XX, 354.
Torii, R., XX, 585.
Torlais, J., XXI, 383.
Tornius, B., XXI, 162.
Torrey, C. C., XXI, 319-22.
Torricelli, E., XIX, 231, 395; XXI, 376, 606.
Tortona, XXI, 228.
Tothill, J. D., XIX, 601.
Tourneur, C., XIX, 42.
Toussaint, C., XIX, 428.
Toussoun, O., XXI, 417.
Tout, T. F., XIX, 422.
Toutain, J., XXI, 463.
Touzaud, D., XX, 554.
Tovell, H. M., XIX, 458.
Townley, C., XX, 362 f.
Tracy, H. C., XIX, 302; XXI, 606.
Traill, T. S., XX, 258.
Tranjen, XX, 229, 243.
Transon, A., XX, 170.
Trautz, M., XXI, 185.
Trauzzi, A., XIX, 575.
Trenchant, J., XXI, 207-09, 247.
Trénel, M., XIX, 404; XX, 564; XXI, 396.
Treptow, E., XXI, 505.
Tretjakov, XX, 232, 243.
Treviranus, G. R., XX, 562.
Trevithick, R., XIX, 553; XX, 445-46; XXI, 385.
Tricot-Royer, J., XIX, 610.
Trillat, J. J., XIX, 438.
Trismegistos, H., XXI, 595.
Troilo, E., XXI, 507.
Trojan, F., XX, 559.
Tropfke, J., XIX, 264, 364; XXI, 450, 606.
Tropovski, E., XIX, 550.
Tropovski, N., XIX, 550.
Trotski, J., XX, 513.
Trowbridge, XX, 211.
Trudean, E. L., XIX, 246.
Tschudi, A., XXI, 374.
Tucci, G., XIX, 525; XXI, 382.
Tucker, T. G., XIX, 453.
Tudeer, L. O. T., XX, 514.
Tufail, ibn, XXI, 516.
al-Tugrā'ī, XX, 587.
Tulane, P., XIX, 408.
Tuslasne, C., XIX, 411.
Tulasne, L. R., XIX, 411.
Tull, J., XXI, 112, 113.
Tulp, N., XIX, 545.
Tūmart, ibn, XXI, 358.
tum Suden, L., XXI, 57-70.
al-Ṭunbarī, XX, 261.
Tuning, J., XXI, 256, 262, 267, 268.
Turnbull, H. W., XXI, 378.
Turner, D., XX, 504.
Turner, D. M., XXI, 606.
Turrière, E., XXI, 606.
Tusser, T., XIX, 264, 541.
Tutenkhamon, XXI, 312.
Tweedie, C., XXI, 606.
Twitchell, A., XIX, 246.
Tylor, E. B., XXI, 10 ff.
Tyndale, W., XXI, 372.
Tyndall, J., XX, 258; XXI, 180.

U

'Ubaidallāh al-Istajī, abū Marwān, XIX, 530.
'Ubaidallāh ibn Khalaf al-Istajī, XIX, 530.

Ubaldo, G. d. Monte, XXI, 275.
Uhlendahl, H., XX, 616.
Ullman, B. L., XXI, 364.
Ulūgh Beg, XIX, 509; XXI, 607.
'Umar al-'Alim, XXI, 590.
'Umar ibn al-'Adīm, XIX, 389.
Unger, E., XIX, 418; XX, 477.
Ungerer, A., XX, 599.
Unkrig, W. A., XIX, 565.
Unna, P. G., XX, 505.
Urbain, G., XXI, 607.
Urdang, G., XXI, 304.
al-'Urdī, XIX, 391; XXI, 595.
Uṣaibi'a, ibn abī, XIX, 259; XX, 262, 452, 455, 520; XXI, 16, 20, 586.
Usāma al-Ḥalabī, XX, 522.
Usāmah ibn Munqidh, XIX, 388; XXI, 358, 359, 607.
Usteri, P., XIX, 551.
Uyemura, R., XIX, 579.
Uzureau, XX, 536.

V

Vaccaro, L., XIX, 392, 393.
Vāgbhaṭa, XIX, 575.
Vahram of Edessa, XIX, 391.
Valascus de Taranta, XXI, 163.
Valdour, J., XIX, 308.
Valla, L., XX, 525.
Vallauri, M., XX, 521.
Vallée, A., XIX, 269.
Vallée, L. L., XIX, 118.
Vallicrosa, J. M., XIX, 298.
Vallisnieri, A., XIX, 302; XX, 498; XXI, 382, 607.
Valsalva, A. M., XIX, 400, 545.
Van de Vyver, A., XX, 579.
Vanden Dorde, R., XIX, 261.
Van der Sleen, W. G. N., XIX, 565.
Van Hecke, A., XIX, 277.
Van Hée, L., XX, 514; XXI, 365, 607.
Van Helmont, F. M., XIX, 396.
Van Helmont, J. B., XX, 410 ff., 531, 532.
Van Ortroy, F., XXI, 465.
Van Schevensteen, XXI, 371, 471.
Vansteenberghe, E., XX, 460.
Van 't Hoff, J. H., XXI, 523.
Vari, R., XX, 514.
Varignon, P., XIX, 99.
Varro, XX, 513.
Vasiliev, A. V., XX, 204; XXI, 582.
Vassura, G., XXI, 607.
Vauquelin, N. L., XXI, 389.
Vavilov, N. I., XIX, 565, 600; XX, 601, 602.
Vayson de Pradenne, A., XIX, 604-05.
Vecchi, B. de, XXI, 369.
Vega, Le. de, XX, 554.
Vemaldus, XXI, 163.
Venel, F., XIX, 332, 335.
Ver Eecke, P., XX, 515; XXI, 607.
Vera, F., XIX, 232-33, 293, 385; XX, 579, 594; XXI, 370, 607.
Verebélij, L. de, XX, 561.
Verga, E., XXI, 607.
Vergil, P., XIX, 263; XXI, 536.
Vergniol, C., XXI, 397.
Verlaine, L., XIX, 304, 415.
Verne, J., XXI, 528.
Vernes, M., XXI, 608.
Verneuil, A., XXI, 406.
Verworn, M., XX, 234, 244.
Vésale, A., XIX, 455, 538; XX, 528; XXI, 58, 66.
Vetter, D., see Strejo, D.
Vetter, Q., XIX, 293, 393, 433; XX, 528, 529, 594; XXI, 370, 418, 442, 608.

Vialle, L., XX, 570, 605.
Vialleton, L., XIX, 597; XXI, 608.
Vickery, H. B., XIX, 593.
Viclyaratna, T., XXI, 608.
Viénot, J., XIX, 402.
Vierendeel, A., XXI, 608.
Vierordt, H., XX, 555.
Viete, F., XIX, 178.
Vietor, A. C., XXI, 608.
Viets, H. R., XIX, 518-20; XX, 539; XXI, 237, 470, 608; and passim.
Vieussens, R., XIX, 398, 548.
Vilhena, H. de, XIX, 447.
Villamil, R. de, XIX, 203-04; XXI, 608.
Villermé, L. R., XXI, 394.
Villiers, B. de, XIX, 309.
Villiers, J. A. J. de, XIX, 487.
Vincent, J., XXI, 286.
Vincent de Beauvais, XIX, 56, 59; XX, 523; XXI, 14, 22, 25, 26, 33, 364.
Vinci, F., XIX, 541.
Virchow, H., XXI, 407.
Virchow, R., XIX, 411; XXI, 403, 405, 407.
Virdung, J., XIX, 364 ff.; XXI, 368.
Virgilius, P. M., XXI, 585.
Visser, P. C., XIX, 566.
Visvakarmā, XXI, 524.
Vitali, G., XIX, 364.
Vitalis de Furno, XIX, 257.
Vitriacus, see Jacques de Vitry.
Vivanti, G., XXI, 286.
Vives, L., XIX, 35.
Viviani, V., XIX, 251; XXI, 535.
Vogel, K., XIX, 417; XX, 21, 24, 36, 510, 575, 576, 597; XXI, 344, 422, 423, 608.
Voizot, E., XXI, 403.
Vollgraff, J. A., XX, 536.
Vollrath, W., XX, 559.
Volta, A., XXI, 591.
Volta, L., XX, 550.
Voltaire, XIX, 272, 347, 348, 352; XX, 482, 558.
Volterra, N., XXI, 379.
Volterra, V., XX, 309.
Vorbrodt, L., XXI, 401.
Vorstius, J., XIX, 460.
Voronof, S., XX, 235, 244.
Vorwahl, H., XIX, 286, 538, 578; XX, 545.
Vowles, H. P., XIX, 301, 441; XXI, 608.
Vowles, M. W., XIX, 199, 441; XXI, 411.
Vulpian, E. F. A., XIX, 309.

W

Waard, C. de, XX, 467-70; XXI, 241, 244, 257, 267, 268, 271, 567.
Waddel, L. A., XIX, 566.
Wafā', abū-l, XIX, 508 ff.; XX, 273.
Wagemann, H., XIX, 553.
Wagner, H., XIX, 492, 493.
Wagner, R., XXI, 404.
Wahl, J., XX, 609.
Wåhlin, T., XX, 492, 493.
Waite, A. E., XXI, 608.
Waite, F. C., XIX, 554.
Walafrid Strabo, XXI, 351.
Walden, P., XIX, 299; XX, 539, 550; XXI, 391.
Walder, K., XIX, 450.
Waldseemüller, M., XX, 268, 270.
Waldstein, A. v., XXI, 377.
Waley, A., XIX, 258, 287; XXI, 609.

Walīd, Ist., XIX, 511.
Walker, E., XX, 530.
Walker, F., XIX, 535.
Walker, G. T., XIX, 411.
Walker, H. M., XXI, 609.
Walker, M. E. M., XXI, 609.
Walker, W. C., XXI, 81-97, 385.
Wallace, A. R., XX, 299; XXI, 579, 590.
Wallerant, F., XIX, 314.
Wallerard, G., XX, 523.
Wallingford, R., XXI, 514.
Wallis, J., XIX, 95; XX, 471.
Walsh, Ja. J., XIX, 389, 458, 532; XXI, 659.
Walsh, Jo., XIX, 381.
Walter of Odington, XXI, 163.
Walter v. Speyer, XIX, 187, 189.
Walther, J., XX, 552; XXI, 412, 609.
Walton, XXI, 589.
Walton, W., XX, 173.
Walz, G., XX, 571.
Wandel, K., XIX, 450.
Wandhoff, E., XXI, 505.
Wang Hsü, XIX, 427.
Warburg, E., XXI, 183.
Ward, F. K., XIX, 600.
Waring, J. I., XIX, 550.
Warmington, E., XXI, 414.
Warnerius, XIX, 191.
Warnsinck, J. C. M., XIX, 267.
Warrain, F., XXI, 413.
Warren, H. A., XX, 291-93.
Wartena, J. R., XIX, 525.
Warthin, A. S., XIX, 312; XX, 239, 245; XXI, 609.
Warville, de, XXI, 386.
Waschow, H., XX, 576.
Washburn, M. F., XIX, 447.
Washington, G., XIX, 270, 402, 551; XX, 552, 557; XXI, 386.
Wassermann, J., XX, 568.
Waterhouse, G., XX, 538.
Waters, E. G. R., XXI, 609.
Watkins, A. E., XX, 601.
Watkins, J. B. C., XIX, 556.
Watson, R., XX, 418 f.
Watts, H., XX, 340.
Wavre, R., XXI, 451.
Wayling, H. G., XX, 550.
Wazzo de Liège, XIX, 187.
Weaver, L., XXI, 609.
Weaver, W. D., XXI, 610.
Webb, C. C. J., XIX, 257.
Webb, E. J., XXI, 340.
Webb, G. B., XX, 569.
Webb, R. S., XX, 542; XXI, 610.
Weber, F. W., XXI, 406.
Weber, L., XIX, 415.
Weber, M., XIX, 587.
Weeks, M. E., XIX, 299, 556, 593; XXI, 455.
Weierstrass, C., XX, 181.
Weigall, A., XIX, 255.
Weigel, V., XIX, 59.
Weil, E., XIX, 395.
Weinberger, B. W., XXI, 470.
Weinberger, W., XIX, 461.
Weingarten, J., XX, 179 ff.
Weir, J., XXI, 396.
Weiss, H. B., XXI, 610.
Weiss, P., XIX, 217, 220; XXI, 578.
Weissmann, A., XX, 224, 234, 242, 293, 296.
Welborn, M. C., XIX, 296, 391, 433; XXI, 351, 610.
Welch, A. C., XIX, 582; XXI, 337.
Wellhausen, I., XXI, 320, 321.
Wellmann, M., XIX, 382; XXI, 342, 413.
Wells, H., XIX, 246.
Wells, H. G., XIX, 450; XXI, 334

Weltfish, G., XIX, 606.
Wenck, J., XX, 457 ff.
Wendelin, G., XXI, 376.
Wenkebach, E., XXI, 348.
Wenstrom, W. H., XIX, 277.
Wenzl, A., XXI, 463.
Wetbrouck, M., XIX, 416.
Werenfels, XX, 214.
Werner, A. G., XX, 550.
Werner, J., XIX, 95; XXI, 610.
Wernher, C. G. A., XXI, 407.
Werth, E., XIX, 600, 601.
Wertheim, E., XIX, 609.
Wesendonck, O. G. v., XXI, 610.
Wessels, C., XXI, 610.
Wesson, M. B., XXI, 407.
Westaway, F. W., XXI, 610.
Westergard, H. M., XIX, 75.
Wetham, C. D., see Wetham, W. C. D.
Weulersse, G., XIX, 269.
Wei, Po-Yang, XIX, 524; XXI, 614.
Wepfer, J. J., XX, 539.
Weyl, H., XX, 203, 595.
Weyrauch, R., XXI, 611.
Wharton, G., XIX, 52.
Wharton, T., XXI, 58, 59, 66, 67, 70.
Wheeler, G., XX, 554.
Wheeler, W. M., XIX, 444; XXI, 611.
Whetham, W. C. D., XXI, 611; see also Dampier-Whetham, W. C.
Whetzel, H. H., XXI, 100, 611.
Whewell, W., XIX, 134, 135, 136; XX, 214, 474; XXI, 177.
Whitaker-Wilson, C., XIX, 266.
White, A. M., XIX, 271.
White, B., XIX, 543.
White, G., XIX, 268.
White, H., XIX, 263.
White, J. C., XX, 505.
White, J. H., XIX, 593.
White, W., XXI, 565.
Whitehead, A. N., XIX, 223; XX, 202, 486, 491, 610; XXI, 611.
Whitman, W., XX, 570.
Whitrow, G. J., XXI, 451.
Whittaker, E. T., XXI, 611.
Whittick, G. C., XXI, 425.
Wiborg, F. B., XXI, 611.
Wichmann, J. E., XIX, 267.
Wickert, L., XIX, 420.
Wiedemann, E., XX, 19, 20; XXI, 595.
Wiegand, T., XX, 514.
Wieleitner, H., XIX, 413, 435; XX, 24; XXI, 286, 586, 611 f.
Wien, W., XX, 195.
Wiener, P. P., XX, 536.
Wieser, F. v., XIX, 486.
Wiessner, E., XIX, 389.
Wietzke, A., XX, 560.
Wilamowitz-Moellendorff, U. v., XXI, 342, 348.
Wilbur, E. M., XXI, 375.
Wilcken, U., XXI, 343.
Wilczynski, E. J., XX, 572.
Wild, L. H., XXI, 372.
Wilde, J., XIX, 600; XXI, 393.
Wildeman, E. de, XX, 602.
Wilhelm, R., XIX, 427; XXI, 612.
Wilhelm v. Hirsau, XXI, 355.
Wilke, C. H., XX, 441.
Wilkes, C., XIX, 553.
Wilkins, J., XIX, 399.
Wilkinson, C., XIX, 266.
Wilkinson, J. W. S., XIX, 528.
Willan, R., XX, 504.
Willard, J. F., XIX, 422; XXI, 426.
Willeke, F., XXI, 367.
Willem II of Holland, XXI, 282.

Willem of Orange, XXI, 374.
Willfort, F., XIX, 566.
William of Malmesbury, XIX, 193.
William of Heytesbury, XXI, 163.
William of Occam, XIX, 283.
Williams, F. E., XXI, 612.
Williams, J. H., XIX, 559.
Williams, H., XX, 614.
Williams, S. H., XX, 565, 566.
Williams, W. R., XXI, 442.
Williamson, G. C., XIX, 444.
Willis, B., XX, 580; XXI, 434, 462.
Willis, T., XX, 498, 539.
Willman-Grabowska, H. de, XXI, 430.
Willstätter, R., XX, 598.
Wilmer, W. H., XXI, 380.
Wilson, A. T., XX, 604.
Wilson, E., XX, 505.
Wilson, E. B., XXI, 612.
Wilson, E. F., XXI, 362.
Wilson, G., XIX, 587.
Wilson, W., XIX, 70.
Wimmer, F., XXI, 463.
Winderlich, R., XX, 550; XXI, 455.
Windisch, E., XIX, 475; XXI, 612.
Windle, B. C. A., XX, 570.
Windler, E., XXI, 366.
Windrerd, G., XIX, 121-53, 438; XX, 192-219, 562; XXI, 451, 612.
Wingate, S. D., XIX, 422; XXI, 612.
Winklemann, A., XXI, 184.
Winkler, H. A., XX, 525, 587.
Winship, G. P., XX, 540.
Winter, E., XIX, 452; XXI, 388.
Winter, F., XIX, 256.
Winter, M., XX, 310.
Winter, O., XXI, 403.
Winternitz, M., XIX, 577; XXI, 612.
Winterstein, H., XXI, 393.
Winthrop, J. jr., XXI, 236, 238, 517.
Wirth, O., XIX, 307.
Wislicenus, W. F., XIX, 207.
Wissler, C., XXI, 612.
Wissmann, H. v., XIX, 429.
Witelo, XXI, 227.
Withering, W., XX, 555.
Withington, E., XXI, 508.
Witt, J. de, XIX, 364.
Witte, H., XX, 203.
Wittek, P., XX, 523.
Witz, A., XXI, 613.
Wodlinger, M. H., XX, 318-19; XXI, 613.
Wöhler, F., XXI, 390.
Woepcke, F., XIX, 510, 511, 512.
Wohlwill, E., XXI, 613.
Wolcott, E. B., XIX, 246; XXI, 395.
Woldert, L., XX, 542.
Wolf, A., XIX, 293.
Wolf, E., XX, 287-90.
Wolf, I., XXI, 394.
Wolff, C. F., XX, 498.
Wolfhart, C., XXI, 374.
Wolfson, H. A., XX, 526; XXI, 613.
Wolkenhauer, A., XIX, 486, 488, 495.
Wolkenhauer, W., XIX, 486.
Wollaston, F. O., XX, 207.
Wollaston, W. H., XIX, 271; XXI, 229.
Wong, K. C., XX, 480-82; XXI, 613.
Wong, Y. W., XXI, 432.
Wood, C. A., XIX, 444; XXI, 510, 613.
Woodger, J. H., XIX, 597; XXI, 456.
Woodhouse, J., XIX, 549, 552.

Woodroffe, J., XIX, 286.
Woodruff, L. L., XX, 231, 243.
Woods, J. H., XXI, 613.
Woodward, A. S., XXI, 445.
Woodworth, R. S., XIX, 305, 447.
Woolner, A. C., XIX, 577.
Worcester, S. A., XIX, 605.
Woude, W. v. d., XXI, 284, 286.
Woulfe, P., XX, 418, 550; XXI, 205.
Woyciechowsky, J. v., XXI, 380.
Wren, C., XIX, 266, 547; XXI, 609.
Wren, F. L., XXI, 451.
Wright, E., XIX, 236; XXI, 255, 278, 279.
Wright, F. A., XIX, 417.
Wright, F. E., XIX, 413.
Wright, J., XIX, 606; XX, 608; XXI, 465.
Wright, J. K., XIX, 303, 492; XXI, 613 f.
Wright, M. B., XX, 504.
Wright, W. C., XXI, 614.
Wu, L. C., XIX, 524, 525; XXI, 614.
Würschmidt, J., XX, 588; XXI, 610.
Würtz, G. C., XIX, 591.
Wüst, E., XXI, 403.
Wüstenfeld, F., XIX, 389.
Wulf, M. de, XIX, 389.
Wundt, C. C., XIX, 365.
Wyman, M., XIX, 246.
Wyclif, XXI, 366.
Wyngaert, A. v. d., XIX, 534.

X

Xenophanes, XXI, 225.

Y

Yaḥyā al-Hāshimī, M., XXI, 354.
Yaḥyā b. ʿAdī, XIX, 290.
Yamamoto, I., XIX, 288; XXI, 614.
Yamasaki, N., XIX, 559.
Yang Chu, XXI, 537.
al-Yaʿqūbī, XXI, 351.
Yāqūt, XIX, 389.
Yāska, XIX, 86.
Yeldham, F. A., XXI, 614.
Yerkes, R. M., XIX, 447.
Yersin, A., XX, 502.
Yetts, W. P., XIX, 530.
Yôraâh, see Jorach.
Young, J., XXI, 119.
Young, J. M., XIX, 414.
Young, T., XIX, 406.
Yuan Yuan, XXI, 365, 570.

Z

Zachaire, D., XXI, 528.
Zacuto, A., XIX, 393.
Ẓahīr ad-Dīn al-Bayhaqī, XIX, 530.
Ẓahīr al-Haqq abū-l Maḥ. Muḥ. al Ghazsnawī, XX, 452.
al-Zahrāwī, XX, 261.
Zakrzewska, M. E., XXI, 608.
Zallinger, J. B., XXI, 100.
Zambeccari, F., XX, 547.
Zambeccari, G., XIX, 608; XX, 611.
Zapata, J. E. de Llano, XIX, 451.
Zapelloni, M. T., XX, 512.
al-Zarqālī, XIX, 385, 528; XX, 312; XXI, 363.
Zaunick, R., XIX, 542.
Zavirski, S., XX, 591; XXI, 304.
Zedler, XIX, 401.

Zehnder, L., XXI, 401.
Zeiss, H., XIX, 273, 557; XXI, 387.
Zeitlin, E., XXI, 385.
Zeitlin, S., XIX, 255.
Zeitlinger, H., XXI, 614.
Zekert, O., XX, 550.
Zeki, S., XIX, 506-15; XXI, 614.
Zeller, E., XX, 577.
Zemaitis, Z., XX, 560.
Zembrzuski, L., XIX, 458.
Zenghelis, C., XIX, 563.
Zenon of Elea, XXI, 35, 225, 519.
Zenodoros, XIX, 94.
Zermelo, E., XX, 487, 564.
Zetland, XIX, 558.
Zeuthen, H. G., XIX, 515; XXI, 614.
Ziegler, G. M., XXI, 610.
Zimmer, H., XIX, 425, 577.
Zimmer, J. T., XXI, 614.
Zimmermann, E. L., XX, 529.
Zimmermann, L. M., XIX, 610.
Zinner, E., XIX, 436, 489; XX, 580, 596, 597; XXI, 344, 346, 347, 359, 362, 363, 364, 453, 465, 614 f.; and passim.
Zirkle, C., XXI, 218-20.
Zittel, C. A. v., XXI, 286.
Zoroastre, XIX, 582.
Zosimos, XXI, 205.
Zündel, A., XXI, 185.
Zunker, XIX, 307.
Zuhr, ibn, XIX, 387.
Zuman, F., XIX, 595.
Zunz, L., XX, 275.
Zur'a, ibn, XIX, 290.
Zuretti, C. O., XIX, 440; XX, 577; XXI, 424.

Brief Table of Contents of Vol. XXI (1934)

(700 p., 14 pl., 37 facsimile)

A. C. BURR.—Notes on the history of the experimental determination of the thermal conductivity of gazes 169
T. COWLES.—Dr. HENRY POWER's poem on the microscope . 71
E. FÄRBER.—Stoff und Form als Problem der biochemischen Forschung. Eine geschichtliche Betrachtung 187
S. V. LARKEY & L. TUM SUDEN.—JACKSON's English translation of BERENGARIUS OF CARPI's "Isagogae Breves", 1660 and 1664 57
M. NIERENSTEIN.—A missing chapter in the history of organic chemistry: the link between elementary analysis by dry-distillation and combustion. 123
M. NIERENSTEIN & F. M. PRICE.—The identity of the Ms. entitled "Mr. NORTONS worke, *de lapide ph'orum*" with the Ordinall of Alchimy 52
J. R. PARTINGTON.—The discovery of Mosaic Gold 203
J. RUSKA.—Die Alchemie des AVICENNA 14
R. A. SAMPSON & F. E. BRASCH.—J. L. E. DREYER (1852-1926) . 131
G. SARTON.—Preface to Vol. XXI. 488
The artificial fertilization of date-palms in the time of ASHUR-NASIR-PAL, B.C. 885-860 8
SIMON STEVIN of Bruges (1548-1620) 241
N. E. STEVENS.—Plant pathology in the penultimate century . 98
L. THORNDIKE.—Check-list of rotographs in the history of natural and occult science 145
W. C. WALKER.—The beginnings of the scientific career of JOSEPH PRIESTLEY 81

Thirty-ninth Critical Bibliography of the History and Philosophy of Science and of the History of Civilization (to September 1933) (924 items) 339

Brief Table of Contents of Volumes I to XX of Isis 502
Index of Authors to Volumes XIX, XX and XXI 619

For Reports (5), *Notes and Correspondence* (7), *Reviews* (19), *see the summaries at the beginnings of Nos.* 60 *and* 61.

Contributors to this volume :

C. W. ADAMS *(Hertford, England)*
R. C. ARCHIBALD *(Providence, R.I.)*
F. E. BRASCH *(Washington, D.C.)*
A. C. BURR *(Cambridge, Mass.)*
T. COWLES *(Berkeley)*
H. T. DAVIS *(Bloomington, Ind.)*
E. FÄRBER *(Heidelberg)*
L. GUINET *(Brussels)*
C. A. KOFOID *(Berkeley)*
E. KREMERS *(Madison, Wis.)*
S. KURLAND *(Boston, Mass.)*
S. V. LARKEY *(San Francisco)*
C. D. LEAKE *(San Francisco)*
R. H. LOWIE *(Berkeley)*
D. B. MACDONALD *(Hartford, Con.)*
A. MARX *(New York City)*
M. NIERENSTEIN *(Bristol)*
J. R. PARTINGTON *(London)*
J. PELSENEER *(Brussels)*
A. POGO *(Cambridge, Mass.)*
F. M. PRICE *(Bristol)*
H. RENAUD *(Rabat, Maroc)*
J. RUSKA *(Berlin)*
R. A. SAMPSON *(Edinburgh)*
L. SAPIN *(Brussels)*
G. SARTON *(Cambridge, Mass.)*
L. G. SIMONS *(New York City)*
N. E. STEVENS *(Washington, D.C.)*
L. THORNDIKE *(New York City)*
W. C. WALKER *(London)*
M. C. WELBORN *(Cambridge, Mass.)*
E. ZINNER *(Bamberg)*.

Authors whose books are reviewed :

BREASTED, J. H.
CLAY, R. S.
COURT, T. H.
DAVIS, H. T.
DOBELL, C.
EDDINGTON, A.
HEIDEL, W. A.
HOFFMAN, E.
HUYGENS, C.
JEANS, J.
KLIBANSKY, R.
LÉVY, H.
MACDONALD, D. B.
MARETT, R. R.
NICOLAS OF CUSA
PEET, T. E.
REY, A.
RICKARD, T. A.
SIGERIST, H. E.
TORREY, C. C.
ZIRKLE, C.